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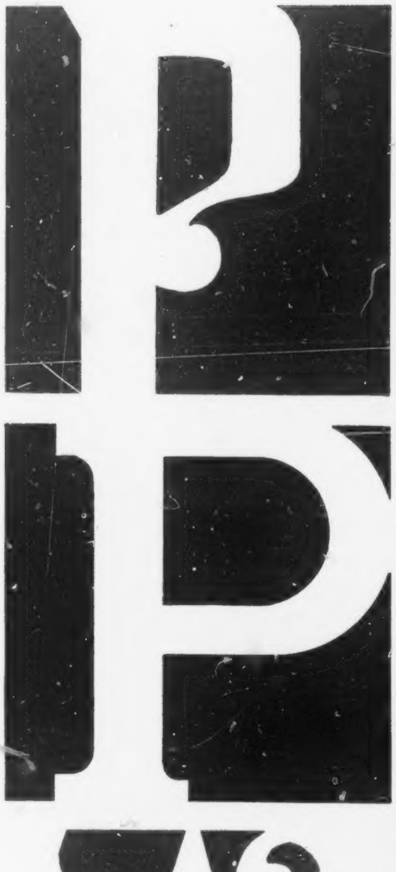

STATISTICS
OF
PAPER
PAPERBOARD
AND
WOOD PULP
1981

DATA THROUGH 1980

AMERICAN PAPER INSTITUTE 260 MADISON AVENUE NEW YORK 10016

FOREWORD

We are pleased to present the nineteenth edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp.**

The Statistics of Paper, Paperboard and Wood Pulp is designed to present a current comprehensive statistical history of the paper and paperboard industry. In addition to the statistics on production, imports, exports, consumption, finances, government reports on prices, employment and wage rates, this report compares trends of apparent consumption of paper and paperboard, by major grades, with trends in population and in total economic activity as measured by the real Gross National Product.

The current edition has been restructured to combine tables into functional groupings: production and related data; regional data; data on inputs; and data on financial and price trends. In earlier editions the tables were grouped according to the source of data. We hope you will find this a more useful array of information.

Each section starts with a brief description and explanation of the tables contained in that section.

We welcome any comments or suggestions you may have concerning the usefulness of this report.

Norma Pace

Norma Pace
Senior Vice President

November 1981

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SECTION I

PRODUCTION AND RELATED OUTPUT DATA

Table I is a new presentation of long-term trends in total paper and paperboard production and new supply, defined as production plus imports minus exports. The table shows that production of paper and paperboard in 1980 was 1.3% below the 1979 record high, but above the total of any previous year. It also shows that exports soared to a record high, only part of which reflected the higher paperboard demand from the People's Republic of China. New supply of paper, paperboard and products in 1980 was 4.0% below the 1979 record high and 1.0% below the previous high of 1978. Real GNP was 0.2% below its 1979 level in 1980, but 3.0% above its earlier high reached in 1979.

The table below summarizes the long-term trends of production, new supply and the real Gross National Product.

	Percent Per Year Change		
	Production	New Supply	Real Gross National Product
1899-1929	5.6%/year	6.3%/year	Not Available
1929-1939	1.9	1.7	1.3%/year
1939-1947	5.5	5.5	4.9
1947-1974	3.9	3.6	3.7
1976-1980	2.2	2.0	3.3

New supply is a good indicator of consumption, inasmuch as changes in inventories of paper, paperboard and products held by producers and users are generally small compared to the annual consumption total.

From 1947 to 1974, use of paper, paperboard and products grew about as fast as real GNP. Production of paper and paperboard, however, rose somewhat faster, largely reflecting the growth of domestic newsprint production, which reduced the relative importance of newsprint imports from Canada, together with a rising trend of exports.

The GNP data shown here are taken from the latest Department of Commerce reports, which include revisions back to 1929. The revised data reflect a change in the definition of GNP, which now includes non-repatriated overseas profits as well as other items. This moved the trend in real GNP sharply upward in the 1975-1980 period, contributed to the reduction in the new supply/real GNP relationship during that period.

The production data from 1959 to 1980 are based mainly on statistics collected by the American Paper Institute. This includes API reports on total production of all paperboard grades and paper grades other than non-kraft packaging and industrial converting papers and special industrial papers. These are obtained from the Bureau of Census. In addition, API does not collect data on wet machine board or on building paper and board, and these data are drawn from the Bureau of Census data.

The production, import and export totals shown on Table I exclude data on hard pressed board for 1947 and later years. Census data on wet machine board, building paper and building board are shown in the Supplement Section, Tables XXXIV and XXXV.

Tables II through X show detailed data on the production of paperboard. The data are distributed by end use and by product, with production distinguished between that destined for domestic use and for export. The largest category is containerboard, which is used in the production of converted shipping containers (fiber boxes). Boxboard is used for folding and set-up boxes, milk cartons and for food service products. Production is also shown by product - unbleached, semi-chemical, bleached kraft and recycled paperboards, with Table VIII showing the cross classification of end use and product.

Table XI shows the analysis of paper and paperboard new supply by grade, in relation to real GNP. For most of the grades, the import and export data used to calculate new supply are taken from the Bureau of Census Data. However, data on imports of uncoated groundwood paper from Canada are obtained from the Canadian Pulp and Paper Association data on shipments of these grades to the U.S. In addition, Census figures showing imports of uncoated book paper (part of uncoated free sheet) from Finland have been shifted to uncoated groundwood paper on the basis of information received from Finnish sources.

The data on paperboard exports used to compute paperboard new supply are from API data on production of these grades for export. The differences between the API data on paper and paperboard exports and the Census data on paper and paperboard exports are included in exports of paper and paperboard products, so that the new supply totals for paper and paperboard including products, are fully consistent with the corresponding Census import and export totals.

This section also includes tables on pulp, paper and board capacity, complied by API. The table showing wood pulp capacity also presents data on capacity to produce market wood pulp.

TABLE I

PAPER AND BOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

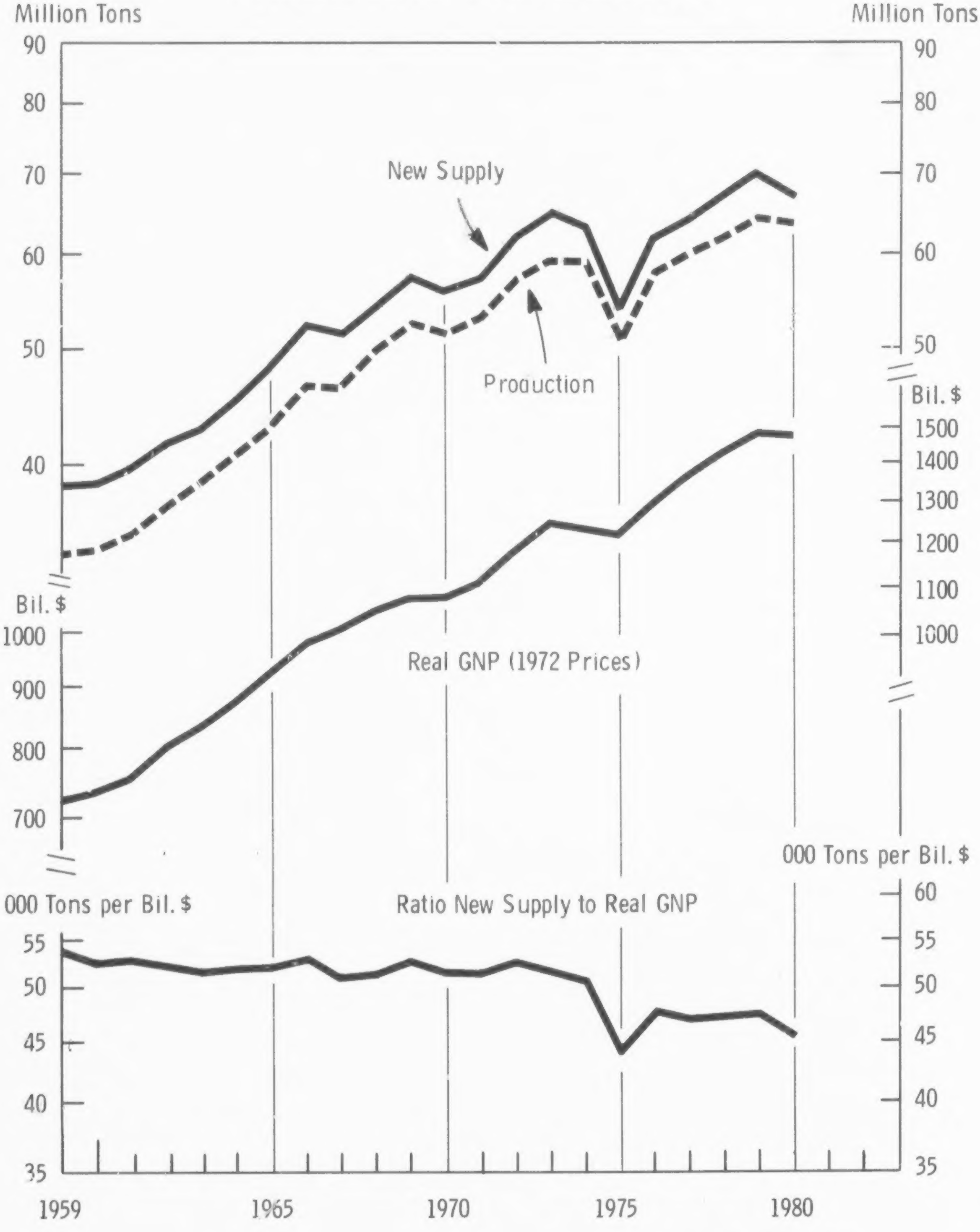
YEAR	Production	Imports	Exports	New Supply	Population	Per Capita New Supply	Real Gross National Product	Ratio New Supply to Real GNP
	(Thousand Tons)	(Inc. Products)			Millions	--lbs.--	$ Bil.1972 Prices	000 Tons/Bil.$
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.6	-	-
1929	11,140	2,534	262	13,411	121.8	220.3	315.7	42.5
1934	9,187	2,265	163	11,289	126.5	178.3	239.1	47.2
1939	13,510	1,637	249	15,949	131.0	243.5	319.8	49.9
1944	17,183	2,576	314	19,445	138.9	280.0	569.1	34.2
1947	20,800	4,121	460	24,461	144.7	338.1	470.3	52.0
1948	21,532	4,582	377	25,737	147.2	349.7	489.8	52.5
1949	20,098	4,752	367	24,483	149.8	326.9	492.2	49.7
1950	23,992	5,006	364	28,634	152.3	376.0	534.8	53.5
1951	25,699	5,143	631	30,211	154.9	390.1	579.4	52.1
1952	25,008	5,190	584	28,614	157.6	363.1	600.8	47.6
1953	26,182	5,229	471	30,940	160.2	386.3	623.6	49.6
1954	26,411	5,165	682	30,894	163.0	379.1	616.1	50.1
1955	29,649	5,346	839	34,156	165.9	411.7	657.5	51.9
1956	30,901	5,780	775	35,906	168.9	425.2	671.6	53.5
1957	30,097	5,410	863	34,644	172.0	402.8	683.8	50.7
1958	30,214	5,092	847	39,459	174.9	394.0	680.9	50.6
1959	33,748	5,517	906	38,358	177.8	431.5	721.7	53.2
1960	33,904	5,633	1,021	38,517	180.7	426.3	737.2	52.2
1961	35,178	5,678	1,210	39,646	183.7	431.6	756.6	52.4
1962	37,062	5,740	187	41,616	186.5	446.3	800.3	52.0
1963	38,647	5,669	1,333	42,981	189.2	454.3	832.5	51.6
1964	40,962	6,209	1,694	45,477	191.9	474.0	876.4	51.9
1965	43,455	6,585	1,770	48,270	194.3	496.9	929.3	51.9
1966	46,702	7,358	1,942	52,115	196.6	530.2	984.8	52.9
1967	46,568	6,952	2,085	51,432	198.7	517.7	1,011.4	50.9
1968	50,172	6,842	2,625	54,389	200.7	542.0	1,050.1	51.4
1969	52,956	7,258	2,749	57,463	202.7	567.0	1,087.6	52.8
1970	51,710	7,115	2,817	56,008	205.1	546.2	1,085.6	51.6
1971	53,203	7,406	3,118	57,492	207.7	553.6	1,122.4	51.2
1972	57,477	7,676	3,069	52,082	209.9	591.6	1,185.9	52.4
1973	59,936	8,131	3,027	65,039	211.9	613.9	1,255.0	51.8
1974	59,210	8,065	3,797	63,477	213.9	593.5	1,248.0	50.9
1975	51,126	6,253	3,116	54,261	216.0	502.4	1,233.9	44.0
1976	58,486	7,142	3,456	62,171	218.0	570.4	1,300.4	47.8
1977	60,207	7,432	3,230	64,408	220.2	585.0	1,371.7	47.0
1978	62,208	9,113	3,373	67,749	222.6	610.5	1,436.9	47.3
1979	64,594	9,123	3,672	70,045	225.1	622.3	1,483.0	47.2
1980	63,701	8,778	5,214	67,264	227.7	590.8	1,480.7	45.4

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1980 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

NOTE: Production, Imports and Exports 1947-1980 exclude Hard Pressed Board
Population data includes Armed Forces overseas

CHART 1

PAPER AND PAPERBOARD



American Paper Institute
Economics Dept.

TABLE II

TOTAL PAPER SHIPMENTS
1959 - 1980
(Thousands of Tons)

	1959	1960	1961	1962	1963	1964
TOTAL PAPER, ALL GRADES	15,025.3	15,294.6	15,821.1	16,560.4	17,319.5	18,111.7
Newsprint Production	1,964.0	2,038.0	2,094.0	2,153.9	2,218.0	2,261.0
Total Printing-Writing Papers	6,907.4	7,120.6	7,369.9	7,803.7	8,183.5	8,667.9
Uncoated Groundwood	896.4	929.0	907.3	909.7	956.4	995.4
Publishing and Printing	731.0	746.8	746.2	755.0	806.7	837.2
Converting	165.4	182.2	161.1	154.7	149.7	158.2
Coated Papers	1,992.3	2,122.3	2,159.3	2,290.5	2,425.2	2,608.3
Uncoated Free Sheet Papers	3,095.8	3,112.5	3,270.1	3,458.3	3,634.1	3,847.5
Uncoated Book	1,607.0	1,655.5	1,684.3	1,727.7	1,851.3	1,969.1
M.F., E.F. & Super Calendered	478.5	437.4	346.6	274.2	264.1	240.1
Offset	547.8	622.6	679.3	765.1	862.3	948.5
White Wove Envelope	261.6	267.3	280.0	310.6	318.8	357.3
Tablet	219.6	221.5	249.9	250.3	281.5	293.7
Other	99.5	106.7	128.5	127.5	124.6	129.5
Chemical Wood Pulp Writing Papers	1,205.5	1,166.2	1,279.6	1,401.5	1,452.2	1,538.3
Bond and Writing	429.2	371.8	407.0	457.3	470.0	499.2
Form Bond	245.0	260.0	300.0	345.0	375.0	420.0
Ledger	47.1	42.6	43.5	45.9	45.1	43.0
Mimeograph	102.5	102.1	110.0	113.3	110.9	116.5
Duplicating	92.3	93.6	106.0	111.5	116.0	117.3
Manifold	25.8	25.8	24.3	22.9	17.4	15.5
Papeterie and Wedding	50.1	49.9	44.7	49.3	42.9	45.2
Opaque Circular	27.8	30.1	28.8	26.5	27.3	20.6
Other	185.7	190.3	215.3	229.8	247.6	261.0
Cover and Text Papers	129.0	133.1	142.1	153.8	155.4	168.1
Kraft Envelope Papers: Total	154.3	157.7	164.1	175.3	175.2	172.0
Brown Kraft - Estimated	70.0	75.0	80.0	85.0	85.0	80.0
Bleached Kraft - Estimated	74.3	82.7	84.1	90.3	90.2	92.0
Thin Papers	135.1	148.1	153.9	183.7	178.7	192.7
Cotton Fiber Papers	119.9	115.0	118.6	118.0	118.8	117.8
Bond and Writing	67.5	66.4	69.4	68.8	70.8	72.1
Other Business	32.1	29.9	30.4	30.5	29.7	28.0
Technical and Other	20.3	18.7	18.8	18.7	18.3	17.7
Bleached Bristols	667.9	693.7	760.7	843.5	870.3	906.2
Tabulating Index	279.3	298.2	342.9	393.7	395.5	419.4
Tag	144.1	143.1	149.5	154.6	164.7	171.5
File Folder	44.6	42.9	39.2	51.2	58.9	59.6
Index Bristol	98.3	92.4	94.2	97.6	98.0	97.4
Printing Bristol	20.1	19.9	21.7	22.3	22.3	22.4
Postcard	13.3	16.5	18.7	18.6	13.7	10.4
Coated Bristol	68.2	80.7	94.5	105.5	117.2	125.5
Total Packaging and Industrial Papers	4,026.0	3,934.6	4,045.0	4,188.6	4,341.6	4,436.1
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	3,731.0	3,651.4	3,733.0	3,880.6	4,027.2	4,091.7
Unbleached Kraft Papers	2,776.1	2,738.7	2,779.7	2,890.9	3,051.4	3,098.4
Wrapping	337.3	329.6	343.2	339.2	354.6	352.2
Bag and Sack (Exc. Shipping Sack)	1,102.0	1,127.2	1,135.1	1,231.0	1,270.2	1,326.2
Shipping Sack	813.6	786.7	795.9	797.8	880.7	865.9
Other Converting	523.2	495.2	505.5	522.9	545.9	554.1
Bleached Packaging Papers (Census)	779.0	735.5	769.1	799.0	782.0	797.4
Wrapping	228.7	215.0	196.3	204.3	191.4	191.7
Bag and Sack (Exc. Shipping Sack)	102.8	102.6	121.7	134.5	130.4	138.5
Shipping Sack	54.7	59.3	61.4	59.8	67.0	75.2
Other Converting 1/	392.8	358.6	389.7	400.4	393.2	392.0
Glassine, Grsprf. and Veg. Parch. (Census)	175.9	177.2	184.2	190.7	193.8	195.9
Special Industrial Papers	295.0	283.2	312.0	308.0	314.4	344.4
Total Tissue Papers (Census)	2,127.9	2,201.4	2,312.2	2,414.2	2,576.4	2,746.7
Total Sanitary Tissue Stock	1,881.7	1,963.6	2,078.0	2,178.9	2,340.4	2,515.7
Toilet Tissue	878.4	878.0	936.1	985.4	1,054.6	1,107.2
Single Ply	608.3	584.5	632.4	649.3	666.5	657.8
Multi-Ply	270.1	293.5	303.8	336.1	388.1	449.5
Facial Tissue Stock	233.7	254.2	262.0	261.8	278.4	327.4
Napkin Stock	228.6	238.1	246.6	249.5	261.3	266.1
Single Ply	174.4	179.7	186.0	184.6	194.6	202.3
Multi-Ply	54.2	58.4	60.6	64.8	66.7	63.8
Towelling*	469.1	516.2	558.9	604.5	662.9	723.1
Wiper Stock*	21.7	25.7	26.5	31.9	33.1	38.4
Other Sanitary Tissue*	50.2	51.3	47.7	45.8	50.0	53.5
Total All Other Tissue	246.2	237.8	234.3	235.3	236.0	231.0
Waxing Tissue Stock	107.4	104.1	105.2	96.3	93.1	81.5
Wrapping Tissue Stock	49.0	46.2	45.4	51.8	50.3	58.9
Industrial Cellulose Wadding	35.0	33.2	29.8	28.0	29.2	31.1
Miscellaneous Tissue	54.8	54.4	53.9	59.3	63.3	59.6

1/ Excludes Bleached Kraft Envelope Paper * Revised slightly by API

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS
1959 - 1980
(Thousands of Tons)

	1965	1966	1967	1968	1969	1970
TOTAL PAPER, ALL GRADES	19,157.0	20,724.9	20,925.6	22,205.6	23,476.7	23,374.9
Newsprint Production	2,245.0	2,483.0	2,709.0	3,045.0	3,362.0	3,464.0
Total Printing-Writing Papers	9,337.5	10,318.4	10,121.9	10,535.8	11,199.1	10,961.7
Uncoated Groundwood	974.0	1,088.3	1,019.6	1,090.3	1,094.9	1,084.6
Publishing and Printing	814.0	876.4	806.4	883.3	914.0	924.4
Converting	160.0	211.9	213.2	207.0	180.9	160.2
Coated Papers	2,814.2	3,087.6	3,086.4	3,138.4	3,348.5	3,278.6
Uncoated Free Sheet Papers	4,216.0	4,691.9	4,577.0	4,817.7	5,214.9	5,124.4
Uncoated Book	2,110.1	2,362.9	2,232.1	2,376.6	2,499.0	2,452.7
M.F., E.F. & Super Calendered	219.3	228.2	209.9	198.2	214.3	162.1
Offset	1,062.4	1,221.9	1,165.3	1,272.1	1,356.5	1,360.4
White Wove Envelope	392.4	412.8	423.0	459.6	461.2	466.1
Tablet	304.4	346.3	294.6	313.0	320.9	342.4
Other	131.6	153.7	139.3	133.7	146.1	121.7
Chemical Wood Pulp Writing Papers	1,725.9	1,931.2	1,964.2	2,061.7	2,307.0	2,288.9
Bond and Writing	555.9	620.8	613.9	627.1	718.0	698.6
Form Bond	490.0	575.0	600.0	645.0	778.1	722.1
Ledger	46.6	49.1	47.5	54.6	51.1	48.2
Mimeograph	117.3	125.4	122.7	115.1	113.1	126.4
Duplicating	125.6	134.9	141.9	160.9	172.5	165.6
Manifold	19.9	20.2	17.2	14.0	11.0	9.8
Papeterie and Wedding	45.5	51.7	51.7	56.0	59.9	53.9
Opaque Circular	22.9	23.8	24.6	23.3	25.0	23.6
Other	302.2	330.3	344.7	365.7	378.3	440.7
Cover and Text Papers	186.0	194.1	192.2	192.8	200.1	193.2
Kraft Envelope Papers: Total	194.0	203.7	188.5	186.6	208.8	189.6
Brown Kraft	67.0E	68.1E	92.9E	92.1E	102.9	95.7
Bleached Kraft	127.0E	135.6E	95.6E	94.5E	105.9	93.9
Thin Papers	211.3	245.4	238.0	261.6	289.0	287.9
Cotton Fiber Papers	122.3	126.3	124.8	124.0	128.1	115.4
Bond and Writing	74.8	78.7	74.8	80.5	85.3	76.5
Other Business	29.0	28.8	30.1	25.2	24.7	23.4
Technical and Other	18.5	18.8	19.9	18.3	18.1	15.5
Bleached Bristols	999.7	1,078.9	1,076.1	1,103.8	1,123.7	1,070.8
Tabulating Index	478.6	514.4	533.2	534.6	558.7	499.6
Tag	194.9	196.9	187.4	203.7	193.5	184.3
File Folder	64.0	71.4	71.0	77.8	76.5	72.0
Index Bristol	100.6	115.0	105.5	104.4	100.4	102.3
Printing Bristol	23.4	26.5	24.6	24.0	28.4	32.0
Postcard	8.8	10.3	8.5	5.2	6.8	6.7
Coated Bristol	129.4	144.4	145.9	154.1	159.4	173.9
Total Packaging and Industrial Papers	4,683.9	4,823.7	4,865.8	5,168.9	5,304.8	5,230.8
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	4,319.1	4,430.1	4,479.3	4,753.1	4,861.8	4,809.7
Unbleached Kraft Papers	3,293.1	3,414.4	3,391.9	3,602.5	3,670.2	3,672.4
Wrapping	358.9	370.0	334.7	353.5	327.7	296.4
Bag and Sack (Exc. Shipping Sack)	1,447.7	1,548.1	1,631.3	1,713.0	1,797.9	1,927.4
Shipping Sack	894.9	884.7	902.5	978.8	983.5	953.3
Other Converting	591.6	611.6	523.4	557.2	561.1	495.3
Bleached Packaging Papers (Census)	825.4	801.1	891.3	942.9	975.2	934.0
Wrapping	207.4	208.4	217.7	210.5	229.3	219.6
Bag and Sack (Exc. Shipping Sack)	163.1	171.6	185.5	207.8	227.3	218.6
Shipping Sack	72.0	73.7	89.1	88.7	99.8	97.9
Other Converting 1/	382.9	347.4	398.9	435.8	418.7	397.9
Glassine, Grspf. and Veg. Parch. (Census)	200.6	214.6	196.1	207.7	216.4	203.3
Special Industrial Papers	364.8	393.6	386.5	415.8	443.0	421.1
Total Tissue Papers	2,890.6	3,099.8	3,228.9	3,455.9	3,610.8	3,718.4
Total Sanitary Tissue Stock	2,651.4	2,847.5	2,976.7	3,217.2	3,368.6	3,494.0
Toilet Tissue	1,120.9	1,169.9	1,171.0	1,273.1	1,274.7	1,323.1
Single Ply	663.8	700.2	675.8	733.9	721.7	775.5
Multi-Ply	457.1	469.7	495.2	539.3	553.0	547.6
Facial Tissue Stock	327.2	337.5	349.1	349.8	386.4	365.0
Napkin Stock	287.3	332.8	347.3	374.7	377.8	381.2
Single Ply	215.2	253.0	262.0	292.3	293.7	304.3
Multi-Ply	72.1	79.7	85.3	82.4	84.1	76.9
Towelling	816.4	897.7	987.8	1,077.7	1,136.9	1,168.1
Wiper Stock	40.1	49.1	48.9	50.3	58.8	55.8
Other Sanitary Tissue	59.5	60.5	72.8	91.5	134.1	200.8
Total All Other Tissue	239.2	252.3	252.1	238.7	242.2	224.5
Waxing Tissue Stock	85.8	81.0	78.0	71.0	66.0	57.8
Wrapping Tissue Stock	60.8	57.6	55.3	53.2	43.4	45.8
Industrial Cellulose Wadding	31.3	43.1	45.3	53.3	52.9	43.2
Miscellaneous Tissue	61.3	70.5	73.6	61.2	79.9	77.7

E - Estimated
1/ Excludes Bleached Kraft Envelope Paper

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS
1959-1980
(Thousands of Tons)

	1971	1972	1973	1974R	1975R
TOTAL PAPER, ALL GRADES	23,744.9	25,383.1	26,810.9	27,010.8	23,391.0
Newsprint Production	3,476.0	3,656.0	3,738.0	3,561.0#	3,691.0
Total Printing-Writing Papers	11,190.9	12,256.8	13,424.9	13,484.5	11,011.7
Uncoated Groundwood	1,089.2	1,126.0	1,180.9	1,192.4	1,127.2
Publishing and Printing	929.0	950.9	985.1	1,001.8	947.5
Converting	160.2	175.1	195.8	190.6	179.7
Coated Papers	3,232.7	3,526.8	3,825.0	3,821.7	3,194.0
Uncoated Free Sheet Papers	5,336.9	5,991.2	6,703.9	6,783.8	5,355.1
Uncoated Book	2,593.8	2,854.1	2,983.4	2,772.7	2,272.9
M.F., E.F. & Super Calendered	147.6	128.6	154.6	128.1	66.5
Offset	1,443.4	1,661.8	1,826.8	1,798.1	1,434.1
White Wove Envelope	467.6	527.0	570.9	530.6	456.6
Tablet	401.3	396.5	305.5	167.5	229.3
Other	133.9	140.2	125.6	148.4	86.4
Chemical Wood Pulp Writing Papers	2,435.2	2,753.2	3,287.0	3,594.9	2,762.2
Bond and Writing	761.5	889.6	1,068.7	1,325.1	1,012.0
Form Bond	787.1	913.0	1,119.3	1,160.8	949.6
Ledger	51.5	53.9	61.8	70.8	51.0
Mimeograph	125.5	128.2	143.3	128.8	96.2
Duplicating	162.9	171.4	182.4	178.4	123.6
Manifold	10.7	11.8	12.7	11.7	9.0
Papeterie and Wedding	51.9	51.1	57.3	47.3	34.2
Opaque Circular	24.5	26.2	33.6	38.1	26.6
Other	459.6	508.0	607.9	633.9	460.0
Cover and Text Papers	181.0	194.4	219.5	213.1	156.2
Kraft Envelope Papers: Total	176.9	189.5	214.0	203.1	163.8
Brown Kraft	93.7	93.2	106.7	98.3	83.4
Bleached Kraft	83.2	96.3	107.3	104.8	80.4
Thin Papers	292.3	333.2	358.2	371.8	310.8
Cotton Fiber Papers	112.8	119.1	123.7	117.0	94.5
Bond and Writing	75.7	81.1	85.5	82.2	67.6
Other Business	21.1	22.2	22.8	20.8	16.3
Technical and Other	16.0	15.8	15.4	14.0	10.6
Bleached Bristols	1,077.0	1,160.5	1,233.2	1,197.8	930.1
Tabulating Index	458.3	465.0	491.2	498.6	372.7
Tag	193.5	217.1	220.3	140.1	132.3
File Folder	80.9	88.3	87.1	66.9	86.0
Index Bristol	106.1	120.9	130.9	181.0	119.0
Printing Bristol	32.9	39.2	46.9	52.5	37.9
Postcard	6.7	5.7	3.1	0.2	1.3
Coated Bristol	198.6	224.3	253.7	258.5	180.9
Total Packaging and Industrial Papers,	5,245.4	5,493.7	5,609.2	5,878.9	4,708.9
Unbleached Kraft, Bleached Packaging Glassine, Greaseproof & Vegetable Parchment	4,807.1	4,986.9	4,999.1	5,280.9	4,268.7
Unbleached Kraft Papers	3,649.2	3,810.9	3,901.6	4,181.8	3,384.0
Wrapping	280.3	282.5	272.3	196.1	150.8
Bag and Sack (Exc. Shipping Sack)	1,929.3	2,014.5	2,006.2	2,148.5	1,939.0
Shipping Sack	930.4	935.7	1,025.8	1,150.1	811.0
Other Converting	509.2	578.2	597.3	687.1	483.2
Bleached Packaging Papers (Census)	952.1	942.0	867.0	858.6	693.5
Wrapping	205.7	204.4	158.1	143.1	115.3
Bag and Sack (Exc. Shipping Sack)	234.7	240.8	254.2	245.2	227.8
Shipping Sack	101.9	105.1	104.4	130.2	95.3
Other Converting 1/	409.8	391.7	350.4	340.1	255.1
Glassine, Grsprf. and Veg. Parch. (Census)	205.8	234.0	230.5	240.5	191.2
Special Industrial Papers	438.3	506.8	610.1	598.0	440.2
Total Tissue Papers (Census)	3,832.6	3,976.6	4,038.8	4,086.4	3,979.4
Total Sanitary Tissue Stock	3,604.3	3,746.2	3,771.8	3,823.2	3,771.9
Toilet Tissue	1,376.2	1,398.7	1,440.5	1,466.1	1,520.1
Single Ply	812.8	839.9	870.3	881.8	907.5
Multi-Ply	563.4	558.7	570.2	584.3	612.6
Facial Tissue Stock	341.1	367.2	361.8	356.9	339.8
Napkin Stock	394.7	419.3	447.7	442.5	462.1
Single Ply	319.5	343.3	357.8	369.7	387.6
Multi-Ply	75.2	76.0	89.8	72.8	74.5
Towelling	1,183.7	1,249.4	1,276.4	1,333.2	1,248.5
Wiper Stock	54.9	59.4	61.3	45.3	37.0
Other Sanitary Tissue	253.8	252.2	184.1	179.2	164.6
Total All Other Tissue	228.3	230.5	267.0	263.2	207.5
Waxing Tissue Stock	58.3	58.4	52.9	49.8	43.6
Wrapping Tissue Stock	48.4	51.5	62.2	60.1	44.4
Industrial Cellulose Wadding	40.3	34.2	36.4	33.2	*
Miscellaneous Tissue	81.3	86.4	115.5	120.1	119.5

1/ Excludes Bleached Kraft Envelope Paper # Basis weight change from 32 lb. to 30 lb. * Included in Miscellaneous Tissue
NOTE (Census): Current Industrial Report, Pulp, Paper and Board R - Revised

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS
1959 - 1980
(Thousands of Tons)

	1976	1977	1978	1979	1980P
TOTAL PAPER, ALL GRADES	**26,710.7R**	**27,869.8R**	**28,457.5R**	**29,890.1R**	**30,190.6**
Newsprint Production	**3,735.9**	3,870.5	3,767.5	**4,061.9R**	**4,672.3**
Total Printing-Writing Papers	**13.250.6**	**13,896.5**	**14,595.6**	**15,413.1R**	**15,604.6**
Uncoated Groundwood	**1,320.6**	**1,359.7**	**1,354.4**	**1,509.0**	**1,498.0**
Publishing and Printing	1,066.5	1,082.4	1,061.0	1,186.0	1,177.9
Converting	254.1	277.3	293.4	323.0	320.1
Coated Papers	**3,980.8**	**4,261.4**	**4,453.3**	**4,526.6**	**4,672.6**
Uncoated Free Sheet Papers	**6,472.2**	**6,776.6**	**7,221.3**	**7,822.6R**	**7,983.3**
Uncoated Book	2,739.6	2,872.1	3,006.6	3,294.3R	3,238.8
M.F., E.F. & Super Calendered	69.3	66.1	69.5	85.9	78.7
Offset	1,744.1	1,853.7	1,873.1	2,101.7	2,032.3
White Wove Envelope	519.9	554.4	596.6	638.8R	655.2
Tablet	299.6	285.4	350.4	320.1R	326.6
Other	106.7	112.5	117.0	147.8	146.0
Chemical Wood Pulp Writing Papers	3,353.3	3,512.1	3,772.4	4,050.8	4,280.1
Bond and Writing	1,265.5	1,344.3	1,415.2	1,566.3	1,773.5
Form Bond	1,163.2	1,212.5	1,339.6	1,463.3	1,509.3
Ledger	57.4	59.6	57.9	58.6	52.8
Mimeograph	100.8	92.3	91.9	85.6	90.9
Duplicating	136.0	147.0	149.5	153.3	173.6
Manifold	12.0	9.2	12.1	10.8	8.9
Papeterie and Wedding	47.5	43.6	49.2	56.4	46.2
Opaque Circular	32.8	32.7	39.6	45.5	37.0
Other	538.1	570.9	617.4	611.0	587.9
Cover and Text Papers	175.3	189.1	212.1	243.1	238.2
Kraft Envelope Papers: Total	204.0	203.3	230.2	234.4	226.2
Brown Kraft	101.4	101.1	121.1	115.6	111.7
Bleached Kraft	102.6	102.2	109.1	118.8	114.5
Thin Papers	**348.4**	**338.7**	**349.7**	**376.1**	**342.5**
Cotton Fiber Papers	**104.2**	**108.5**	**114.4**	**124.6**	**125.8**
Bond and Writing	75.8R	80.2R	84.4R	93.1R	94.6
Other Business	15.8	15.6	16.3	16.6	14.3
Technical and Other	12.6R	12.7R	13.7R	14.9R	16.9
Bleached Bristols	**1,024.4**	**1,051.6**	**1,102.5**	**1,058.4R**	**982.4**
Tabulating Index	334.3	338.0	310.6	297.2R	253.0
Tag	177.6R	177.1R	207.7R	208.7R	177.7
File Folder	92.0	99.3	112.3	127.6	114.0
Index Bristol	140.8	135.6	143.4	137.9	147.0
Printing Bristol	43.0	46.4	51.3	53.0	52.1
Postcard	1.4	1.3	0.6	0.2	0.4
Coated Bristol	235.3R	253.9R	276.6R	233.8R	238.2
Total Packaging and Industrial Papers	**5,540.0R**	**5,817.6R**	**5,879.6R**	**5,894.6R**	**5,538.7**
Unbleached Kraft and Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**4,967.0R**	**5,294.0R**	**5,385.1R**	**5,363.4R**	**5,075.0**
Unbleached Kraft Papers	3,931.1R	3,942.4R	4,010.9R	4,097.6R	3,929.8
Wrapping	164.7R	172.9R	175.2R	169.3R	129.5
Bag and Sack (Exc. Shipping Sack)	2,119.2R	2,106.2R	2,231.2R	2,219.4R	2,251.3
Shipping Sack	977.4R	1,012.5R	970.9R	1,067.8R	1,013.9
Other Converting	669.8R	656.8R	633.6R	641.1R	535.1
Bleached Packaging Papers (Census)	828.7	1,127.0	1,115.2R	1,031.9R	943.5
Wrapping	126.4	136.1	154.2R	118.9R	102.6
Bag and Sack (Exc. Shipping Sack)	273.9	304.1	276.7R	250.4R	228.6
Shipping Sack	127.6	106.8	91.6	102.4	92.0
Other Converting 1/	300.8	580.0	592.7R	560.2	520.3
Glassine, Grsprf and Veg. Parch. (Census)	207.2	218.6	259.0	233.9R	201.7
Special Industrial Papers	**573.6**	**523.6**	**494.5R**	**531.2R**	**463.7**
Total Tissue Papers	**4,183.6R**	**4,285.2R**	**4,214.8**	**4,520.5R**	**4,375.0**
Total Sanitary Tissue Stock	**3,954.6**	**4,069.6**	**4,017.4**	**4,324.5R**	**4,221.2**
Toilet Tissue	1,608.9	1,660.2	1,643.2	1,742.4	1,651.4
Single Ply	935.1	866.5	865.4	956.3	881.9
Multi-Ply	673.9	793.6	777.9	786.1	769.5
Facial Tissue Stock	335.1	336.0	329.0	357.9	353.3
Napkin Stock	455.2	491.9	493.1	537.2R	554.8
Single Ply	382.6	406.8	409.5	450.7R	445.9
Multi-Ply	72.5	85.1	83.6	86.5R	108.9
Towelling	1,323.2	1,353.4	1,317.6	1,404.0	1,376.4
Wiper Stock	46.4	43.8	44.8	58.8	58.1
Other Sanitary Tissue	185.9	184.3	189.6	224.2	219.1
Total All Other Tissue	**228.9R**	**216.0**	**197.4**	**196.0R**	**153.9**
Waxing Tissue Stock	43.0	36.3	35.2	37.1	27.3
Wrapping Tissue Stock	55.2R	55.3	52.0	53.1R	47.1
Industrial Cellulose Wadding	*	*	*	*	*
Miscellaneous Tissue	130.7	124.4	110.2	105.8	79.5

1/ Excludes Bleached Kraft Envelope Paper * Included in Miscellaneous Tissue R - Revised P - Preliminary
NOTE (Census): Current Industrial Report, Pulp, Paper and Board

TABLE III

PAPERBOARD PRODUCTION 1955-1980

BY END USE

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC USE Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,400	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970	25,383,000	13,964,300	9,403,100	4,264,000	297,200
1971	26,037,000	14,353,000	9,530,800	4,519,700	302,500
1972	28,502,500	16,019,000	10,856,500	4,846,500	315,900
1973	29,571,500	16,928,100	11,355,900	5,255,000	317,100
1974	28,914,900	16,767,000	11,305,400	5,179,200	282,300
1975	24,755,700	14,586,200	9,854,200	4,449,300	282,600
1976	28,439,500	16,700,200	11,375,900	5,061,500	262,900
1977	28,953,100	17,167,300	11,695,700	5,207,900	263,700
1978	30,274,900	17,908,200	12,133,700	5,503,100	271,500
1979	31,428,900	18,824,800	12,819,500	5,775,900	229,300
1980	30,952,300	18,070,200	12,393,100	5,445,600	231,500

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1980

BY END USE

TONS

	BOXBOARD-DOMESTIC USE				ALL OTHER
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970	6,238,700	4,079,700	466,500	1,692,500	5,180,000
1971	6,233,600	4,139,400	447,900	1,646,300	5,450,400
1972	6,551,000	4,439,800	455,100	1,656,100	5,932,500
1973	6,764,300	4,704,500	465,300	1,594,500	5,879,200
1974	6,399,000	4,426,500	403,600	1,568,900	5,748,900
1975	5,663,800	3,896,400	304,500	1,462,900	4,505,700
1976	6,564,700	4,714,600	331,500	1,518,600	5,174,500
1977	6,332,200	4,546,700	302,500	1,483,100	5,453,500
1978	6,504,500	4,705,500	332,700	1,466,300	5,862,200
1979	6,474,600	4,724,700	306,000	1,443,900	6,129,600
1980	6,157,800	4,494,600	241,500	1,421,700	6,724,300

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1980

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD TOTAL	LINERBOARD		
		Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,869,700	4,097,900	771,800
1958	7,259,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,900	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,248,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970	13,964,300	9,403,100	9,133,400	269,700
1971	14,353,000	9,530,800	9,249,100	281,700
1972	16,019,000	10,856,500	10,577,600	278,900
1973	16,928,100	11,355,900	11,066,900	289,100
1974	16,767,000	11,305,400	10,838,400	467,100
1975	14,586,200	9,854,200	9,646,900	207,300
1976	16,700,200	11,375,900	11,093,200	282,700
1977	17,167,300	11,695,700	11,354,400	341,400
1978	17,908,200	12,133,700	11,877,200	256,400
1979	18,824,800	12,819,500	12,417,300	402,300
1980	18,070,200	12,393,100	11,948,600	444,500

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1980

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL Total	Semi-Chemical	Recycled	CHIP & FILLER BOARDS Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,300	2,909,300	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970	4,264,000	3,404,700	859,300	297,200
1971	4,519,700	3,580,200	939,500	302,500
1972	4,846,500	3,874,200	972,300	315,900
1973	5,255,000	4,126,500	1,128,500	317,100
1974	5,179,200	4,010,300	1,169,000	282,300
1975	4,449,300	3,579,400	870,000	282,600
1976	5,061,500	3,986,500	1,075,100	262,900
1977	5,207,900	4,128,200	1,079,700	263,700
1978	5,503,100	4,305,300	1,197,800	271,500
1979	5,775,900	4,573,600	1,202,300	229,300
1980	5,445,600	4,398,500	1,047,100	231,500

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1980

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	988,800	329,200	178,800	182,300	101,100
1965	752,100	1,051,800	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970	940,700	1,265,900	386,900	287,200	221,600	102,800
1971	918,800	1,394,900	366,700	278,100	280,900	108,200
1972	894,400	1,575,700	395,600	315,900	308,700	117,200
1973	871,200	1,730,300	410,400	296,600	348,500	114,400
1974	850,200	1,678,700	415,800	289,800	382,700	92,700
1975	865,800	1,458,000	350,600	234,200	315,800	76,700
1976	822,900	1,799,500	412,300	266,800	402,200	91,400
1977	808,700	1,592,000	401,300	262,400	525,200	80,200
1978	731,200	1,766,500	418,700	307,100	591,600	109,500
1979**	718,700	1,717,800	433,200	274,100	681,500	110,900
1980	677,600	1,579,400	419,500	298,400	734,600	96,300

* - Includes Exports

** - Starting in 1979 lightweight cup is included with heavyweight cup.

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1980

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
YEAR	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	2,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970	3,205,100	1,692,500	1,512,600	167,800	3,372,900
1971	3,347,600	1,646,300	1,701,300	60,500	3,408,100
1972	3,607,500	1,656,100	1,951,400	101,800	3,709,300
1973	3,771,400	1,594,500	2,176,900	81,500	3,852,900
1974	3,709,800	1,568,900	2,140,900	59,500	3,769,300
1975	3,301,000	1,462,900	1,838,200	40,300	3,341,400
1976	3,795,200	1,518,600	2,276,600	43,400	3,838,500
1977	3,669,700	1,483,100	2,186,600	47,300	3,717,000
1978	3,924,700	1,466,300	2,458,400	47,700	3,972,400
1979	3,936,200	1,443,900	2,492,300	61,900	3,998,100
1980	3,806,000	1,421,700	2,384,300	56,200	3,862,300

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1980

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	569,200	34,800
1970	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,800	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,000	536,400	35,200	445,400	55,800
1976	2,255,000	566,200	70,800	448,200	47,200
1977	2,247,100	562,800	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,800	486,900	27,300	415,200	44,400
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970	15,078,400	8,961,400	7,306,700	1,618,400	36,300
1971	15,782,300	9,330,600	7,507,500	1,789,600	33,500
1972	17,484,000	10,671,200	8,658,700	1,988,000	24,500
1973	18,179,900	11,257,000	9,083,700	2,158,900	14,400
1974	17,878,400	11,006,800	8,883,300	2,111,000	12,400
1975	15,752,600	9,882,100	7,957,700	1,860,900	63,400
1976	18,121,100	11,400,600	9,178,200	2,181,400	41,100
1977	18,223,100	11,541,000	9,299,000	2,199,400	42,700
1978	19,540,200	12,268,700	9,890,100	2,331,500	47,100
1979	20,219,100	12,692,100	10,280,500	2,376,900	34,700
1980	20,192,200	12,119,900	9,897,500	2,196,400	26,000

Note: Exports are included in "All Other"
Note: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1980

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,900	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,400	582,000	116,500	26,000	791,200
1976	841,000	690,800	120,900	29,400	847,900
1977	865,000	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970	3,166,000	1,628,800	113,300	1,423,900	2,951,000
1971	3,320,500	1,784,600	105,300	1,430,600	3,131,200
1972	3,519,300	1,964,100	108,400	1,446,800	3,293,600
1973	3,776,400	2,244,400	118,000	1,414,000	3,146,500
1974	3,660,200	2,168,400	105,000	1,386,800	3,211,400
1975	3,352,700	2,000,100	89,500	1,263,000	2,517,800
1976	3,931,400	2,500,700	99,800	1,330,800	2,789,100
1977	3,700,600	2,316,700	96,700	1,287,300	2,981,400
1978	3,943,100	2,537,300	104,500	1,301,300	3,328,400
1979	3,979,400	2,596,900	104,500	1,278,000	3,547,600
1980	3,154,600	1,799,900	100,400	1,254,400	4,917,700

Note: Exports are included in "All Other"
Note: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1980

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC			Container Chip & Filler Boards
		Total	Linerboard	Corrugating Material	
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,600	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,400	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,928,000	1,869,900	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,600	2,271,100	191,400	1,943,500	136,100
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,300	2,533,600	1,867,000	644,900	21,600
1972	4,150,200	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	16,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,300	3,053,100	2,208,800	827,600	16,800
1978	4,286,200	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000

Note: Exports are included in "All Other"
Note: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1980

TONS

	BOXBOARD-DOMESTIC				ALL OTHER
YEAR	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,600	978,200	52,500	-	835,900
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000

Note: Exports are included in "All Other"
Note: Detail does not necessarily add to totals due to rounding

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1980

TONS	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1968	13,388,400	9,043,700	4,061,900	282,800	6,334,000	4,218,300	519,500
1969	14,396,500	9,692,500	4,395,400	308,600	6,424,800	4,261,600	498,600
1970	13,964,300	9,403,100	4,264,000	297,200	6,238,700	4,079,700	466,500
1971	14,353,000	9,530,800	4,519,700	302,500	6,233,600	4,139,400	447,900
1972	16,018,900	10,856,500	4,846,500	315,900	6,551,000	4,439,800	455,100
1973	16,928,100	11,355,900	5,255,000	317,100	6,764,300	4,704,500	465,300
1974	16,767,000	11,305,400	5,179,200	282,300	6,399,000	4,426,500	403,600
1975	14,586,200	9,854,200	4,449,300	282,600	5,663,800	3,896,400	304,500
1976	16,700,200	11,375,900	5,061,500	262,900	6,564,700	4,714,600	331,500
1977	17,167,300	11,695,700	5,207,900	263,700	6,332,200	4,546,700	302,500
1978	17,908,200	12,133,700	5,503,100	271,500	6,504,500	4,705,500	332,700
1979	18,824,800	12,819,600	5,775,900	229,300	6,474,600	4,724,700	306,000
1980	18,070,200	12,393,100	5,445,600	231,500	6,157,800	4,494,600	241,500
Unbleached Kraft							
1968	8,535,500	8,511,400	7,400	16,700	261,000	261,000	-
1969	9,242,100	9,210,700	8,100	23,300	287,200	287,200	-
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,700	389,700	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,200	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,200	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	588,000	588,000	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	698,400	698,400	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
Semichemical							
1968	3,366,600	-	3,363,800	2,800	-	-	-
1969	3,611,100	-	3,608,900	2,200	-	-	-
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,200	-	3,874,200	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-

Note: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1980

TONS	BOXBOARD (Cont.)	ALL OTHER (Exc. Exports)				EXPORTS	ALL GRADES
YEAR	Milk Carton & Food Service	TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	Total	Total
Total Paperboard							
1968	1,596,200	3,585,200	784,000	779,900	2,021,300	1,596,000	24,903,600
1969	1,664,600	3,694,400	822,600	860,500	2,011,300	1,860,100	26,375,700
1970	1,692,500	3,280,700	775,700	887,300	1,617,700	1,899,400	25,383,000
1971	1,646,300	3,335,000	935,700	925,700	1,473,500	2,115,400	26,037,000
1972	1,656,100	3,701,100	1,016,600	1,065,500	1,619,000	2,231,400	28,502,500
1973	1,594,900	3,864,900	1,050,300	1,145,400	1,668,200	2,015,200	29,571,400
1974	1,568,900	3,599,400	984,200	1,128,500	1,486,800	2,149,500	28,914,900
1975	1,462,900	3,052,200	893,800	907,500	1,250,900	1,453,500	24,755,700
1976	1,518,600	3,465,300	984,500	1,016,500	1,464,300	1,709,200	28,439,500
1977	1,483,100	3,623,100	1,056,800	1,075,900	1,490,400	1,830,500	28,953,100
1978	1,466,300	3,825,500	1,094,000	1,163,000	1,568,500	2,036,700	30,274,900
1979	1,443,900	3,873,000	1,179,900	1,177,200	1,515,900	2,256,600	31,428,900
1980	1,421,700	3,394,800	918,800	1,077,600	1,398,400	3,329,400	30,952,300
Unbleached Kraft							
1968	-	584,600	-	175,400	409,200	1,380,700	10,761,800
1969	-	604,200	-	187,300	416,900	1,682,800	11,816,300
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,300	-	226,200	333,100	1,596,700	13,562,500
1974	-	526,300	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,058,000	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,800	-	267,000	233,800	1,645,300	15,151,000
1980	-	382,800	-	226,400	156,400	2,379,800	15,295,200
Semichemical							
1968	-	14,400	-	12,300	2,100	94,000	3,475,000
1969	-	33,000	-	13,500	19,500	52,400	3,696,500
1970	-	33,200	-	13,700	9,500	84,300	3,518,400
1971	-	16,900	-	14,100	2,800	104,000	3,700,000
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,300	-	17,400	6,000	145,500	4,175,400
1975	-	15,900	-	14,000	1,900	115,400	3,701,800
1976	-	19,300	-	18,100	1,200	119,300	4,105,000
1977	-	14,300	-	14,300	-	121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,400	-	10,800	6,600	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500

Note: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VII (CONT.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1980

TONS	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1968	125,000	125,000	-	-	2,773,900	1,226,900	-
1969	134,700	134,700	-	-	2,970,300	1,345,900	-
1970	118,800	118,800	-	-	2,912,300	1,263,300	-
1971	124,400	124,400	-	-	2,996,400	1,392,100	-
1972	129,800	129,800	-	-	3,196,300	1,572,800	-
1973	127,700	127,700	-	-	3,322,600	1,728,200	-
1974	99,400	99,400	-	-	3,244,600	1,675,900	-
1975	81,800	81,800	-	-	2,917,700	1,455,600	-
1976	99,500	99,500	-	-	3,315,700	1,797,200	-
1977	85,000	85,000	-	-	3,074,500	1,591,500	
1978	115,700	115,700	-	-	3,232,800	1,766,500	-
1979	110,900	110,900	-	-	3,161,600	1,717,800	-
1980	96,300	96,300	-	-	3,001,100	1,579,400	-
Recycled							
1968	1,361,300	407,300	690,700	263,300	3,299,100	2,730,400	519,500
1969	1,408,600	347,100	778,400	283,100	3,167,300	1,628,500	498,600
1970	1,400,700	269,700	859,300	271,800	2,983,000	2,473,000	466,500
1971	1,494,100	281,700	939,500	272,900	2,897,700	2,407,700	447,900
1972	1,545,000	278,900	972,300	293,800	2,964,900	2,477,200	455,100
1973	1,724,500	289,100	1,128,500	306,900	2,987,000	2,521,600	465,300
1974	1,906,800	467,100	1,169,000	270,800	2,684,800	2,280,900	403,600
1975	1,347,700	207,300	870,000	270,400	2,283,200	1,977,900	304,500
1976	1,610,500	282,700	1,075,100	252,800	2,671,600	2,340,000	331,500
1977	1,671,100	341,400	1,079,700	250,100	2,669,700	2,367,200	302,500
1978	1,707,600	256,400	1,197,800	253,400	2,654,100	2,321,400	332,700
1979	1,833,900	402,300	1,202,300	229,300	2,614,500	2,308,500	306,000
1980	1,723,100	444,500	1,047,100	231,500	2,476,300	2,234,800	241,500

Note: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1980

TONS	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES TOTAL
Solid Bleached							
1968	1,547,000	316,400	-	7,800	308,600	108,500	3,323,800
1969	1,624,400	327,700	-	8,300	319,400	108,100	3,540,800
1970	1,649,000	197,400	-	-	197,400	114,400	3,342,900
1971	1,604,300	104,000	-	-	104,000	156,500	3,381,300
1972	1,623,500	142,500	-	-	142,500	217,800	3,686,400
1973	1,594,400	133,500	-	-	133,500	280,300	3,864,000
1974	1,568,700	108,900	-	-	108,900	320,200	3,773,100
1975	1,462,100	87,500	-	-	87,500	256,200	3,343,300
1976	1,518,500	122,900	-	-	122,900	306,100	3,844,100
1977	1,482,300	172,400	-	-	172,400	389,400	3,721,300
1978	1,466,300	200,500	-	-	200,500	429,600	3,978,600
1979	1,446,900	234,300	-	-	234,300	491,300	3,998,100
1980	1,421,700	220,100	-	-	220,100	544,700	3,862,300
Recycled							
1968	49,200	2,669,800	784,000	584,400	1,301,400	12,800	7,343,000
1969	40,200	2,729,500	822,600	651,400	1,255,500	16,800	7,322,300
1970	43,500	2,579,600	775,700	688,200	1,115,800	17,300	6,980,500
1971	42,100	2,743,100	935,700	717,100	1,090,300	20,600	7,155,500
1972	32,600	3,013,400	1,016,600	824,600	1,172,200	14,400	7,537,800
1973	100	3,142,500	1,050,300	900,900	1,191,300	30,800	7,884,600
1974	200	2,941,000	984,200	880,100	1,076,700	101,000	7,633,500
1975	800	2,512,900	893,800	717,600	901,500	23,900	6,167,700
1976	100	2,839,600	984,500	780,900	1,074,200	36,500	7,158,100
1977	-	2,946,100	1,056,800	833,700	1,055,500	29,600	7,316,500
1978	-	3,101,400	1,094,000	897,900	1,109,500	21,600	7,484,500
1979	-	3,120,500	1,179,900	899,400	1,041,220	21,800	7,590,700
1980	-	2,789,300	918,800	848,900	1,021,600	82,600	7,071,300

Note: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VIII

PAPERBOARD PRODUCTION

BY MONTHS

1980

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Containerboard-Domestic Use	1,581,900	1,512,200	1,629,000	1,540,100	1,605,700	1,523,000
Linerboard	1,055,500	1,033,500	1,106,100	1,038,400	1,099,600	1,051,400
Kraft	1,016,800	993,900	1,062,800	996,400	1,053,100	1,015,300
Recycled	38,700	39,600	43,300	42,000	46,500	36,100
Corrugating	508,100	461,200	503,000	484,100	485,700	449,600
Semichemical	411,600	374,200	405,000	392,600	390,900	364,200
Recycled	96,500	87,000	98,000	91,500	94,800	85,400
Container Chip	18,300	17,500	19,900	17,600	20,400	22,000
Boxboard-Domestic Use	500,400	467,300	502,200	469,300	471,800	430,800
Folding	342,200	337,300	357,300	323,200	329,000	295,500
Set-Up	25,000	23,600	23,200	21,600	19,800	19,100
Milk Carton	133,200	106,400	121,700	124,500	123,000	116,200
All Other	639,600	584,500	623,100	552,300	574,900	642,700
Domestic	397,600	365,600	388,300	341,900	315,600	323,400
Export	242,000	218,900	234,800	210,400	259,300	319,300
TOTAL PAPERBOARD	2,721,900	2,564,100	2,754,100	2,561,700	2,652,200	2,596,500

Note: Totals do not add due to rounding.
For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX

BOX PLANT CONSUMPTION

BY MONTHS

1980

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Linerboard and Corrugating Material	1,632,800	1,453,800	1,525,000	1,477,500	1,405,500	1,343,000
Total Containerboard	1,637,500	1,457,800	1,528,600	1,481,300	1,408,800	1,346,400

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE VIII (Cont.)

PAPERBOARD PRODUCTION

BY MONTHS

1980

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Containerboard-Domestic	1,377,000	1,444,200	1,443,200	1,544,600	1,527,200	1,342,300	18,070,200
Linerboard	964,600	1,001,600	1,004,600	1,076,100	1,054,900	906,800	12,393,100
Kraft	933,000	967,500	974,700	1,034,000	1,023,500	877,700	11,948,600
Recycled	31,600	34,100	29,900	42,100	31,400	29,100	444,500
Corrugating	390,800	423,500	419,300	447,100	453,300	419,800	5,445,600
Semichemical	320,200	345,900	336,700	366,100	361,400	329,600	4,398,500
Recycled	70,600	77,600	82,600	81,000	91,900	90,200	1,047,100
Container Chip	21,600	19,100	19,300	21,400	19,000	15,700	231,500
Boxboard-Domestic	412,000	438,300	431,300	480,700	461,100	412,400	5,477,400
Folding	270,000	310,400	304,700	338,600	325,500	280,700	3,814,200
Set-Up	16,500	18,600	19,500	20,900	18,400	15,400	241,500
Milk Carton	125,500	109,300	107,100	121,200	117,200	116,300	1,421,700
All Other	618,100	684,700	654,100	657,700	614,700	558,200	7,404,600
Domestic	273,300	317,700	332,600	349,900	346,200	323,200	4,075,200
Export	344,800	367,000	321,500	307,800	268,500	235,000	3,329,400
TOTAL PAPERBOARD	2,407,100	2,567,400	2,528,500	2,683,100	2,602,900	2,312,900	30,952,300

Note: Totals do not add due to rounding.
For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX (CONT.)

BOX PLANT CONSUMPTION

BY MONTHS

1980

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Linerboard and Corrugating Material	1,364,300	1,359,500	1,486,800	1,690,900	1,334,800	1,372,000	17,446,000
Total Containerboard	1,367,900	1,363,800	1,490,200	1,694,900	1,337,900	1,374,600	17,489,500

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE X

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

000 Short Tons	1959	1960	1961	1962	1963	1964
Production - Total	33,748	33,904	35,178	37,062	38,647	40,962
Total Paper	15,025	15,295	15,821	16,560	17,320	18,112
Total Paperboard	15,972	15,926	16,727	17,847	18,594	19,954
Unbleached Kraft E	5,214	5,342	5,814	6,316	6,750	7,600
Semichemical E	1,774	1,791	2,017	2,198	2,304	2,481
Bleached Kraft E *	2,000	2,039	2,218	2,429	2,539	2,666
Recycled E	6,984	6,754	6,678	6,905	7,001	7,207
Wet Machine Board	145	175	155	146	141	148
Building Paper	1,435	1,410	1,391	1,429	1,453	1,533
Insulating Board	1,171	1,098	1,084	1,080	1,139	1,215
New Supply R						
Total Paper R	20,109	20,474	21,009	21,844	22,490	23,794
Newsprint	7,107	7,313	7,375	7,523	7,513	8,097
Printing/Writing Papers R	6,863	7,077	7,332	7,772	8,153	8,656
Uncoated Groundwood R	933	960	933	942	989	1,053
Coated R	1,967	2,096	2,138	2,266	2,398	2,572
Uncoated Free Sheet R	3,051	3,076	3,238	3,431	3,609	3,824
Thin and Cotton Fiber	244	251	262	290	287	301
Bleached Bristols	668	694	761	843	870	906
Packaging and Ind. Conv. Papers	4,023	3,893	3,997	4,143	4,258	4,316
Unbleached Kraft	2,796	2,730	2,767	2,889	3,024	3,038
Other	1,227R	1,163	1,230	1,254	1,234	1,278
Tissue	2,116	2,191	2,305	2,406	2,566	2,725
Total Paperboard	15,604	15,475	16,201	17,312	17,941	18,976
Unbleached Kraft	4,902	4,970	5,417	5,890	6,254	6,843
Semichemical	1,753	1,760	1,955	2,154	2,221	2,374
Bleached Board	1,983	2,016	2,186	2,396	2,500	2,621
Recycled	6,966	6,729	6,643	6,872	6,966	7,138
Construction and Other	2,752	2,675	2,610	2,644	2,733	2,917
Total All Grades R	38,465	38,624	39,820	41,800	43,164	45,687
Paper and Products	20,072	20,441	20,953	21,794	22,438	23,689
Paperboard and Products	15,534	15,401	16,083	17,178	17,810	18,871
Total Including Products	38,358	38,517	39,646	41,616	42,981	45,477
Real G.N.P. - $ Bil., 1972 Prices Revised Series	**721.7**	**737.2**	**756.6**	**800.3**	**832.5**	**876.4**
New Supply to Real G.N.P - Revised						
Total Paper	27.863	27.773	27.768	27.294	27.015	27.150
Newsprint	9.848	9.920	9.748	9.400	9.025	9.239
Printing/Writing Papers	9.509	9.600	9.691	9.711	9.793	9.877
Uncoated Groundwood	1.293	1.302	1.233	1.177	1.189	1.201
Coated	2.726	2.843	2.823	2.832	2.881	2.934
Uncoated Free Sheet	4.228	4.173	4.281	4.287	4.335	4.364
Thin and Cotton Fiber	.338	.340	.346	.362	.345	.343
Bleached Bristols	.926	.941	1.006	1.053	1.045	1.034
Packaging and Ind. Conv. Papers	5.574	5.281	5.283	5.177	5.114	4.924
Unbleached Kraft	3.874	3.703	3.657	3.610	3.632	3.466
Other	1.700	1.578	1.626	1.567	1.482	1.458
Tissue	2.932	2.972	3.047	3.006	3.082	3.109
Total Paperboard	21.621	20.992	21.413	21.632	21.551	21.652
Unbleached Kraft	6.792	6.742	7.160	7.360	7.512	7.808
Semichemical	2.429	2.387	2.584	2.691	2.668	2.709
Bleached Board	2.748	2.735	2.889	2.994	3.003	2.991
Recycled	9.652	9.128	8.780	8.587	8.368	8.145
Construction and Other	3.813	3.629	3.450	3.304	3.283	3.328
Total All Grades	53.298	52.393	52.630	52.230	51.849	52.130
Paper and Products	27.812	27.727	27.694	27.232	26.953	27.030
Paperboard and Products	21.524	20.891	21.257	21.464	21.393	21.532
Total Including Products	53.150	52.248	52.400	52.000	51.629	51.891

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. E - Estimate R - Revised

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

000 Short Tons	1965	1966	1967	1968	1969	1970
Production - Total	43,455	46,702	46,568	50,172	52,956	51,710
Total Paper	19,157	20,725	20,926	22,206	23,477	23,375
Total Paperboard	21,332	23,179	22,819	24,904	26,376	25,383
Unbleached Kraft	8,301E	9,303E	9,485E	10,762	11,816	11,541
Semichemical	2,681E	2,969E	3,057E	3,475	3,697	3,518
Bleached Kraft	2,818E*	3,053E*	3,060E*	3,324	3,541	3,343
Recycled	7,532E	7,853E	7,217E	7,343	7,322	6,981
Wet Machine Board	144	148	144	155	148	139
Building Paper	1,574	1,495	1,503	1,574	1,603	1,594
Insulating Board	1,248	1,155	1,176	1,333	1,352	1,219
New Supply R						
Total Paper R	25,170	27,430	27,284	28,372	30,067	29,831
Newsprint	8,483	9,375	9,218	9,378	10,025	9,955
Printing/Writing Papers R	9,348	10,362	10,209	10,556	11,278	11,073
Uncoated Groundwood R	1,069	1,217	1,163	1,219	1,306	1,310
Coated R	2,767	3,039	3,041	3,083	3,282	3,207
Uncoated Free Sheet R	4,198	4,676	4,584	4,799	5,195	5,132
Thin and Cotton Fiber	314	351	345	351	371	353
Bleached Bristols	1,000	1,079	1,076	1,104	1,124	1,071
Packaging and Ind. Conv. Papers	4,473	4,610	4,645	5,003	5,173	5,105
Unbleached Kraft	3,150	3,269	3,233	3,494	3,602	3,582
Other	1,323	1,341	1,412	1,509	1,571	1,523
Tissue	2,866	3,083	3,212	3,435	3,591	3,698
Total Paperboard	20,301	22,063	21,498	23,325	24,526	23,495
Unbleached Kraft	7,401	8,332	8,317	9,388	10,135	9,858
Semichemical	2,626	2,905	2,981	3,381	3,645	3,434
Bleached Board	2,771	2,994	2,999	3,216	3,432	3,229
Recycled	7,503	7,832	7,201	7,340	7,314	6,974
Construction and Other	2,972	2,789	2,825	3,073	3,105	2,972
Total All Grades R	48,443	52,282	51,607	54,770	57,698	56,298
Paper and Products	25,130	27,386	27,238	28,341	30,044	29,804
Paperboard and Products	20,168	21,940	21,369	22,975	24,314	23,232
Total including Products	48,270	52,115	51,432	54,389	57,463	56,008
Real G.N.P.- $ Bil., 1972 Prices Revised Series	**929.3**	**984.8**	**1,011.4**	**1,058.1**	**1,087.6**	**1,085.6**
Ratio of New Supply to Real GNP - Revised						
Total Paper	27.084	27.854	26.978	26.813	27.645	27.479
Newsprint	9.128	9.520	9.114	8.863	9.218	9.170
Printing/Writing Papers	10.058	10.522	10.095	9.976	10.369	10.200
Uncoated Groundwood	1.150	1.236	1.150	1.152	1.201	1.207
Coated	2.977	3.086	3.007	2.913	3.017	2.954
Uncoated	4.517	4.748	4.533	4.536	4.777	4.727
Thin and Cotton Fiber	.338	.356	.341	.332	.341	.325
Bleached Bristols	1.076	1.096	1.064	1.043	1.033	.987
Packaging and Ind. Conv. Papers	4.814	4.681	4.593	4.728	4.756	4.703
Unbleached Kraft	3.390	3.319	3.197	3.302	3.312	3.300
Other	1.424	1.362	1.396	1.426	1.444	1.403
Tissue	3.084	3.131	3.176	3.246	3.302	3.406
Total Paperboard	21.846	22.404	21.255	22.044	22.551	21.641
Unbleached Kraft	7.964	8.461	8.223	8.873	9.319	9.081
Semichemical	2.826	2.950	2.947	3.195	3.351	3.163
Bleached Board	2.982	3.040	2.965	3.039	3.156	2.973
Recycled	8.074	7.953	7.120	6.937	6.725	6.424
Construction and Other	3.198	2.832	2.793	2.904	2.855	2.738
Total All Grades	52.128	53.089	51.025	51.763	53.051	51.858
Paper and Products	27.042	27.809	26.931	26.785	27.624	27.454
Paperboard and Products	21.702	22.279	21.128	21.713	22.356	21.400
Total Including Products	51.942	52.919	50.852	51.403	52.835	51.592

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

000 Short Tons	1971	1972	1973	1974	1975
Production - Total	53,203	57,477	59,936	59,210	51,126
Total Paper	23,745	25,383	26,811	27,011	23,391
Total Paperboard	26,037	28,502	29,571	28,915	24,756
Unbleached Kraft	11,800	13,268	13,563	13,333	11,543
Semichemical	3,700	4,010	4,260	4,175	3,702
Bleached Kraft	3,381	3,686	3,864	3,773	3,343
Recycled	7,156	7,538	7,885	7,634	6,168
Wet Machine Board	138	148	149	144	115
Building Paper	1,837	1,915	1,858	1,845	1,615
Insulating Board	1,446	1,529	1,547	1,295	1,249
New Supply R					
Total Paper R	30,523	32,399	34,215	34,139	28,718
Newsprint	10,191	10,610	11,051	10,771	9,373
Printing/Writing Papers R	11,352	12,373	13,548	13,624	10,977
Uncoated Groundwood R	1,323	1,334	1,388	1,460	1,316
Coated R	3,165	3,455	3,757	3,739	3,076
Uncoated Free Sheet R	5,449	6,034	6,759	6,822	5,322
Thin and Cotton Fiber	338	390	410	401	334
Bleached Bristols	1,077	1,160	1,234	1,202	929
Packaging and Ind. Conv. Papers	5,163	5,459	5,600	5,682	4,419
Unbleached Kraft	3,598	3,791	3,916	4,099	3,200
Other	1,565	1,668	1,684	1,583	1,219
Tissue	3,817	3,957	4,016	4,062	3,948
Total Paperboard	23,938	26,279	27,590	26,799	23,311
Unbleached Kraft	9,976	11,381	11,972	11,760	10,485
Semichemical	3,596	3,898	4,153	4,029	3,587
Bleached Board	3,224	3,468	3,584	3,453	3,087
Recycled	7,142	7,532	7,881	7,557	6,152
Construction and Other	3,467	3,650	3,604	3,301	3,001
Total All Grades R	57,928	62,328	65,409	64,239	55,029
Paper and Products	30,412	32,290	34,073	33,888	28,449
Paperboard and Products	23,613	26,142	27,362	26,288	22,811
Total Including Products	57,492	62,082	65,039	63,477	54,261
Real G.N.P.- $ Bil.,1972 Prices Revised Series	**1,122.4**	**1,185.9**	**1,255.0**	**1,248.0**	**1,233.9**
Ratio of New Supply to Real G.N.P					
Total Paper R	27.196	27.321	27.263	27.356	23.274
Newsprint	9.080	8.947	8.806	8.631	7.596
Printing/Writing Papers	10.115	10.433	10.795	10.917	8.897
Uncoated Groundwood	1.179	1.125	1.106	1.170	1.067
Coated	2.820	2.913	2.993	2.996	2.493
Uncoated Free Sheet	4.855	5.088	5.386	5.467	4.313
Thin and Cotton Fiber	.301	.328	.327	.321	.271
Bleached Bristols	.960	.978	.983	.963	.753
Packaging and Ind. Conv. Papers	4.600	4.604	4.462	4.553	3.581
Unbleached Kraft	3.206	3.197	3.120	3.284	2.593
Other	1.394	1.407	1.342	1.268	.988
Tissue	3.401	3.337	3.200	3.255	3.200
Total Paperboard	21.327	22.159	21.984	21.473	18.892
Unbleached Kraft	8.888	9.597	9.539	9.423	8.497
Semichemical	3.204	3.287	3.309	3.228	2.907
Bleached Board	2.872	2.924	2.856	2.767	2.502
Recycled	6.363	6.351	6.280	6.055	4.986
Construction and Other	3.090	3.078	2.872	2.645	2.432
Total All Grades	51.613	52.558	52.119	51.474	44.598
Paper and Products	27.096	27.228	27.150	27.154	23.056
Paperboard and Products	21.038	22.044	21.802	21.064	18.487
Total Including Products	51.222	52.350	51.824	50.863	43.975

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. R - Revised P - Preliminary

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

000 Short Tons	1976	1977	1978R	1979R	1980P
Production - Total	58,486	60,207	52,208	64,594	63,701
Total Paper	26,608	27,870	28,458	29,890	30,191
Total Paperboard	28,440	28,953	30,275	31,429	30,952
Unbleached Kraft	13,332	13,651	14,372	15,151	15,295
Semichemical	4,105	4,264	4,439	4,689	4,724
Bleached Kraft	3,844	3,721	3,979	3,998	3,862
Recycled	7,158	7,317	7,485	7,591	7,071
Wet Machine Board	130	129	136	144	138
Building Paper	1,771	1,852	1,915	1,868	1,369
Insulating Board	1,434	1,403	1,425	1,263	1,051
New Supply					
Total Paper	32,909	34,514	36,495	37,706	37,711
Newsprint	10,178	10,301	11,170	11,214	11,776
Printing/Writing Papers	13,324	14,279	15,274	16,183	16,182
Uncoated Groundwood	1,588	1,749	1,907	2,123	2,085
Coated	3,890	4,274	4,593	4,642	4,695
Uncoated Free Sheet	6,459	6,820	7,249	7,895	8,011
Thin and Cotton Fiber	363	384	433	473	416
Bleached Bristols	1,024	1,052	1,092	1,050	975
Packaging and Ind. Conv. Papers	5,241	5,665	5,845	5,800	5,448
Unbleached Kraft	3,741	3,863	4,031	4,092	3,975
Other	1,500	1,802	1,814	1,708	1,473
Tissue	4,166	4,269	4,206	4,509	4,305
Total Paperboard	26,744	27,150	28,339	29,255	27,944
Unbleached Kraft	12,089	12,376	12,938	13,532	12,958
Semichemical	3,986	4,142	4,368	4,624	4,432
Bleached Board	3,538	3,332	3,550	3,507	3,317
Recycled	7,131	7,300	7,483	7,592	7,237
Construction and Other	3,367	3,464	3,737	3,598	2,968
Total All Grades	63,020	65,128	68,571	70,559	68,623
Paper and Products	32,643	34,248	36,315	37,607	37,103
Paperboard and Products	26,161	26,696	27,897	28,840	27,193
Total Including Products	62,171	64,408	67,949	70,045	67,264
Real G.N.P.- $ Bil., 1972 Prices Revised Series	**1,300.4**	**1,371.7**	**1,436.9**	**1,483.0**	**1,480.7**
Ratio of New Supply to Real G.N.P.					
Total Paper	25.307	25.162	25.398	25.425	25.468
Newsprint	7.827	7.510	7.774	7.562	7.953
Printing/Writing Papers	10.245	10.410	10.630	10.913	10.927
Uncoated Groundwood	1.221	1.275	1.327	1.432	1.408
Coated	2.991	3.116	3.197	3.130	3.171
Uncoated Free Sheet	4.967	4.972	5.045	5.324	5.410
Thin and Cotton Fiber	.279	.280	.301	.319	.281
Bleached Bristols	.787	.767	.760	.708	.658
Packaging and Ind. Conv. Papers	4.030	4.130	4.067	3.911	3.679
Unbleached Kraft	2.877	2.816	2.805	2.759	2.685
Other	1.153	1.314	1.262	1.152	.995
Tissue	3.204	3.112	2.927	3.040	2.907
Total Paperboard	20.565	19.793	19.723	19.727	18.872
Unbleached Kraft	9.296	9.022	9.004	9.125	8.751
Semichemical	3.065	3.020	3.040	3.118	2.993
Bleached Board	2.721	2.429	2.471	2.364	2.240
Recycled	5.483	5.322	5.208	5.120	4.888
Construction and Other	2.589	2.525	2.601	2.426	2.004
Total All Grades - Primary	48.462	47.480	47.721	47.579	46.345
Paper and Products	25.102	24.968	25.273	25.358	25.058
Paperboard and Products	20.118	19.462	19.415	19.447	18.365
Total Including Products	47.809	46.955	47.289	47.232	45.427

TABLE XI

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

(THOUSANDS OF TONS)

	1970*	1971**	1972***	1973	1974	1975	1976
TOTAL PAPER AND BOARD	58,022	58,190	59,965	62,284	63,779	64,369	65,673
Total Paper	25,653	26,084	26,545	27,621	28,532	28,922	29,210
Newsprint	3,396	3,472	3,490	3,597	3,722	3,848	4,014
Total Printing, Writing & Related	12,390	12,454	12,766	13,659	14,128	14,275	14,494
Groundwood Uncoated	1,286	1,328	1,353	1,403	1,280	1,329	1,309
Coated Papers - Total	3,731	3,698	3,866	4,045	4,075	4,065	4,202
Coated Groundwood	--	--	--	--	--	--	2,299
Coated Free Sheet	--	--	--	--	--	--	1,903
Uncoated Free Sheet	5,834	5,845	5,894	6,541	7,046	7,180	7,319
Cotton Fiber	162	150	152	149	142	139	142
Thin	329	321	320	342	351	367	358
Solid Bleached Bristols	1,048	1,112	1,182	1,179	1,235	1,194	1,165
Total Packaging & Ind. Conv.	5,881	5,912	5,997	6,060	6,360	6,368	6,202
Unbleached Kraft	4,018	4,057	4,053	4,138	4,389	4,333	4,218
Bleached Packaging & Ind. Conv.	1,302	1,299	1,374	1,292	1,291	1,194	1,128
Special Industrial	561	556	571	629	679	841	856
Tissue	3,986	4,244	4,292	4,303	4,322	4,432	4,500
Total Paperboard	28,397	28,118	29,328	30,543	30,995	31,218	32,097
Total Unbl. Kraft Pkg. & Ind. Conv.	12,434	12,595	13,458	13,898	13,965	14,157	14,568
Linerboard	11,718	11,797	12,568	12,862	12,901	13,138	13,448
Folding	304	337	393	463	479	484	595
Other	412	462	497	573	585	536	525
Total Bleached Pkg. Paperboard	3,588	3,513	3,629	3,928	3,920	3,807	3,998
Folding	1,499	1,424	1,500	1,749	1,851	1,751	1,915
Milk Carton & Food Service	1,714	1,758	1,857	1,899	1,848	1,859	1,854
Linerboard	150	131	141	141	108	95	101
Other	225	200	129	139	113	102	128
Semichemical Paperboard	3,847	3,938	4,155	4,386	4,430	4,536	4,758
Total Recycled Paperboard	8,528	8,072	8,086	8,330	8,680	8,717	8,774
Linerboard	419	363	310	306	430	364	361
Corrugating Medium	983	1,000	1,063	1,178	1,358	1,449	1,476
Container Chip & Filler	323	313	329	349	344	408	398
Folding	3,048	2,795	2,673	2,664	2,665	2,658	2,705
Set-Up	578	571	540	518	505	465	450
Gypsum Wall Board Facing	1,037	1,013	1,044	1,093	1,100	1,063	1,046
Other	2,140	2,017	2,127	2,221	2,278	2,310	2,337
Total Wet Machine Board	176	172	197	182	188	217	216
Total Construction Paper & Board	3,796	3,816	3,894	6,186	4,063	4,011	4,149
Construction Paper	1,978	2,075	2,070	2,102	2,165	2,270	2,317
Insulating Board	1,818	1,741	1,824	4,084	1,898	1,741	1,832
Total Hard Pressed Board	1,353	1,712	1,903	2,247	2,334	2,460	2,511

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues

* As published in 1969-1972 Survey

** As published in 1970-1973 Aurvey

*** As published in 1972-1975 Survey

**** Hard Pressed Board not included in Total Paper and Board

TABLE XI (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

(THOUSANDS OF TONS)

	1977	1978	1979	1980F	1981F	1982F	1983F
TOTAL PAPER AND BOARD	66,459	67,419	69,033	70,778	72,538	74,777	75,937
Total Paper	29,831	30,460	31,179	32,543	33,714	35,007	35,706
Newsprint	4,069	4,104	4,199	4,750	5,244	5,583	5,680
Total Printing, Writing & Related	14,975	15,566	16,057	16,692	17,265	17,875	18,385
Groundwood Uncoated	1,367	1,453	1,541	1,522	1,525	1,644	1,716
Coated Papers-Total	4,397	4,546	4,822	5,119	5,514	5,811	6,135
Coated Groundwood	2,408	2,450	2,554	2,764	3,112	3,377	3,657
Coated Free Sheet	1,989	2,096	2,268	2,355	2,402	2,434	2,478
Uncoated Free Sheet	7,465	7,847	8,152	8,516	8,708	8,884	8,974
Cotton Fiber	133	131	134	136	137	139	140
Thin	402	395	393	389	366	370	374
Solid Bleached Bristols	1,213	1,194	1,016	1,009	1,017	1,027	1,047
Total Packaging & Ind. Conv.	6,242	6,146	6,053	6,141	6,170	6,329	6,377
Unbleached Kraft	4,317	4,223	4,098	4,165	4,174	4,321	4,353
Bleached Packaging & Ind. Conv.	1,069	1,041	1,105	1,106	1,124	1,128	1,132
Special Industrial	856	883	850	870	871	881	892
Tissue	4,545	4,644	4,870	4,961	5,035	5,220	5,264
Total Paperboard	32,173	32,631	33,436	33,817	34,454	35,398	35,859
Total Unbl. Kraft Pkg. & Ind. Conv.	14,793	15,054	15,546	15,961	16,532	17,099	17,197
Liner	13,586	13,864	14,199	14,554	15,139	15,707	15,805
Folding	645	650	827	889	870	868	868
Other	561	540	520	518	523	524	524
Total Bleached Pkg. Paperboard	4,020	4,197	4,268	4,265	4,222	4,260	4,279
Folding	1,930	1,996	2,061	2,056	2,082	2,114	2,121
Milk Carton & Food Service	1,824	1,899	1,877	1,843	1,771	1,774	1,785
Liner	97	122	137	145	145	145	145
Other	170	179	193	221	225	227	228
Semichemical Paperboard	4,661	4,739	4,864	4,947	5,048	5,295	5,600
Total Recycled Paperboard	8,699	8,642	8,757	8,644	8,652	8,745	8,783
Linerboard	392	361	432	459	456	499	512
Corrugating Medium	1,337	1,343	1,392	1,359	1,368	1,376	1,378
Container Chip & Filler	403	311	287	279	277	277	278
Folding	2,674	2,558	2,615	2,550	2,524	2,534	2,541
Set-Up	443	418	404	392	381	383	385
Gypsum Wall Board Facing	1,112	1,238	1,273	1,287	1,298	1,313	1,322
Other	2,337	2,403	2,355	2,318	2,348	2,363	2,367
Total Wet Machine Board	180	145	154	161	159	159	159
Total Construction Paper & Board	4,276	4,182	4,265	4,257	4,211	4,212	4,213
Construction Paper	2,364	2,352	2,380	2,363	2,343	2,344	2,345
Insulating Board	1,912	1,830	1,885	1,894	1,868	1,868	1,868
Total Hard Pressed Board #	2,536	2,525##	2,556##	2,550##	N.A.	N.A.	

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity survey various issues to December 1980
F - Forecast as reported in December 1980 Capacity Survey
R - Revised
N.A. - Not Available
- Hard Pressed Board Not included in Total Paper and Board.
- As reported in 1976 - 1979 Survey

TABLE XII

WOOD PULP CAPACITY

1970 - 1983

(Thousands of Tons)

	1970	1971	1972	1973	1974	1975	1976
TOTAL ALL GRADES (1)	44,725	45,731	46,760	48,459	48,995	49,502	50,547
Dissolving and Special Alpha	1,736	1,772	1,756	1,754	1,824	1,671	1,571
Sulphate, Paper Grades Total	2,490	2,414	2,353	2,378	2,401	2,420	2,417
Bleached	2,000	1,966	1,949	1,977	2,014	1,993	1,972
Unbleached	490	449	404	401	387	427	445
Sulphate and Soda Total	30,390(2)	31,364(3)	32,765	34,253	34,511	34,991	35,875
Bleached Total	11,700	12,009	12,885	13,733	14,522	14,764	15,042
Hardwood	5,532	5,516	5,674	6,608	7,105	7,201	7,208
Softwood	6,168	6,494	7,211	7,125	7,417	7,563	7,835
Semi-Bleached Total	1,879	2,264	2,178	2,045	1,539	1,469	1,539
Hardwood	249	492	419	328	33	7	19
Softwood	1,630	1,772	1,760	1,717	1,506	1,462	1,520
Unbleached	16,811	17,091	17,702	18,475	18,451	18,758	19,293
Semichemical Total	3,811	3,814	3,937	4,171	4,233	4,246	4,402
Bleached	326	337	204	344	330	334	345
Unbleached	3,485	3,478	3,732	3,827	3,903	3,912	4,057
Mechanical Total (Groundwood)	4,799(4)	4,680(4)	4,593	4,532	8,230	8,515	8,704
For Paper and Board	-	-	-	-	-	4,247	4,416
Stone Groundwood	-	-	-	-	4,572(5)	3,615	3,540
Refiner	-	-	-	-	-	500	543
Thermo-Mechanical	-	-	-	-	-	131	333
For Other Paper and Board	-	-	-	-	-	4,268	4,288
Stone and Refiner	-	-	-	-	-	523	537
Defibrated and Exploded (1)	1,147	1,159	1,220	1,270	1,358	1,320	1,251
Screenings	154	156	137	100	97	84	78
MARKET PULP							
Total All Grades	-	-	-	-	5,557	5,412	5,407
Dissolving	-	-	-	-	1,636	1,488	1,421
Chemical Paper Grades	-	-	-	-	3,921	3,924	3,986
Sulphate	-	-	-	-	3,431	3,430	3,411
Bleached & Semi-Bleached	-	-	-	-	3,240	3,218	3,194
Unbleached	-	-	-	-	191	212	218
Sulphite	-	-	-	-	471	460	459
All Other	-	-	-	-	19	34	116

		1970	1971	1972	1973	1974	1975	1976
-	No Data Available							
(1)	Excludes defibrated and exploded wood pulp for hard pressed board as follows:	1,495	1,785	1.971	2,215	2,300	2,425	2,500

(2) Excludes 198,000 tons of soda pulp that are included in Total All Grades

(3) Excludes 372,000 tons of soda pulp that are included in Total All Grades

(4)

	1970	1971
	000's Tons	
Bleached Groundwood	1,270	1,279
Unbleached Groundwood	3,529	3,400

(5) Includes refiner groundwood

TABLE XII (Cont.)

WOOD PULP CAPACITY

1970 - 1983

(Thousands of Tons)

	1977	1978	1979	1980F	1981F	1982F	1983F
TOTAL ALL GRADES (1)	51,849	52,714	53,636	54,928	56,817	58,153	59,064
Dissolving and Special Alpha	1,648	1,573	1,551	1,579	1,579	1,579	1,579
Sulphite Paper Grades Total	2,252	2,095	2,004	1,946	1,947	1,948	1,948
Bleached	1,812	1,675	1,595	1,537	1,538	1,539	1,539
Unbleached	440	420	409	409	409	409	409
Sulphate and Soda Total	36,922	37,903	38,893	39,721	40,971	41,804	42,223
Bleached - Total	15,822	18,171	18,869	19,571	20,160	20,491	20,704
Hardwood	7,310	7,729	8,072	8,235	8,353	8,492	8,604
Softwood	8,512	10,442	10,897	11,336	11,807	11,999	12,100
Semi-Bleached Total	1,547	(2)	(2)	(2)	(2)	(2)	(2)
Hardwood	12						
Softwood	1,536						
Unbleached	19,552	19,732	19,923	20,150	20,811	21,313	21,518
Semichemical Total	4,514	4,572	4,553	4,556	4,635	4,795	5,121
Bleached	345	339	336	343	348	349	471
Unbleached	4,169	4,234	4,217	4,213	4,288	4,446	4,651
Mechanical Total (Groundwood)	6,442	6,507	6,572	7,064	7,613	7,955	8,120
For Paper and Board	4,502	4,580	4,573	5,062	5,620	5,959	6,124
Stone Groundwood	3,397	3,328	3,255	3,224	3,286	3,335	3,395
Refiner	538	533	507	498	515	535	571
Thermo-Mechanical	567	719	811	1,340	1,819	2,069	2,159
For other Paper and Board	1,939	1,926	1,999	2,002	1,994	1,996	1,996
Stone and Refiner	525	529	594	637	662	664	664
Defibrated and Exploded (1)	1,414	1,397	1,406	1,365	1,331	1,331	1,331
Screenings	71	65	63	61	71	73	73
MARKET PULP							
Total All Grades	5,467	5,746	6,334	6,579	6,798	6,851	6,928
Dissolving	1,611	1,573	1,551	1,579	1,579	1,579	1,579
Chemical Paper Grades	3,856	4,069	4,632	4,901	5,120	5,173	5,250
Sulphite	3,444	3,760	4,332	4,601	4,820	4,873	4,950
Bleached and Semi-Bleached	3,280	3,653	4,228	4,485	4,705	4,758	4,834
Unbleached	164	107	104	116	115	115	116
Sulphite	301	309	350	300	300	300	300
All Other	111	104	101	99	99	99	99
(1) Excludes defibrated and exploded wood pulp for hard pressed board as follows:	2,500	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

(2) Included with bleached sulphate wood pulp

F - Forecast

TABLE XIII

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1975		1976		1977	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	9,402,617	2,647,608	10,975,432	3,260,982	11,388,320	3,527,212
WOOD PULP, ALL GRADES, TOTAL	3,077,729	1,006,843	3,727,165	1,197,746	3,864,333	1,176,867
Dissolving and Special Alpha	143,008	46,844	190,801	61,891	180,270	55,988
Sulphite, Paper Grades, Total	358,984	112,285	435,512	129,810	510,263	150,515
Bleached	298,929	95,680	359,634	110,417	453,553	135,778
Unbleached	60,055	16,605	75,878	19,393	56,710	14,737
Sulphate, Paper Grades, Total	2,405,657	818,118	2,919,309	975,048	2,970,264	935,608
Bleached	2,131,880	729,124	2,558,269	861,021	2,587,686	826,568
Semi-Bleached	103,728	34,123	112,313	36,336	137,936	43,133
Unbleached	170,049	54,872	248,727	77,691	244,642	65,907
Soda	1,056	371	749	264	928	272
Groundwood	144,707	22,219	156,817	23,823	154,538	26,897
Other*	24,317	7,005	23,977	6,910	48,070	7,585
WASTE PAPER	71,963	5,978	106,444	10,104	91,680	9,100
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	6,252,925	1,605,780	7,141,823	2,019,267	7,432,307	2,296,869
PAPER AND PAPERBOARD, TOTAL	6,217,068	1,543,709	7,079,675	1,919,532	7,348,464	2,174,577
PAPER, TOTAL	6,121,119	1,524,245	6,966,448	1,894,085	7,181,471#	2,138,744
Newsprint	5,847,239	1,418,141	6,569,345	1,741,549	6,558,967	1,884,121
Uncoated Printing & Conv. Paper	203,592	62,420	323,451	101,686	406,586	141,186
Groundwood, Uncoated	88,107	25,929	141,784	43,716	178,119	61,735
Book, Uncoated	115,484	36,488	181,667	57,970	228,467	79,448
Coated and Impregnated Paper	Included in Products				111,678	51,193
Writing & Related Paper, Total	13,126	19,896	15,575	25,350	20,685	29,079
Writing Papers	4,287	6,423	3,511	6,769	7,255	8,448
Thin Paper	8,112	11,840	11,183	16,669	12,573	18,455
Other Fine Paper	727	1,632	881	1,912	857	2,176
Bristols	730	345	626	404	491	324
Packaging & Industrial Converting Paper, Total	54,144	20,463	56,360	23,556	82,049	31,548
Unbleached Kraft	36,363	10,890	28,966	8,832	29,823	8,911
Other Packaging & Converting	15,483	7,475	23,364	11,240	48,853	19,602
Glassine & Greaseproof	2,207	1,921	3,838	3,199	3,348	2,940
Vegetable Parchment	90	177	192	285	23	99
Special Industrial Paper	2,284	2,936	1,086	1,531	978	1,266
Tissue	4	44	5	9	37	28
PAPERBOARD, TOTAL	7,772	2,241	13,084	3,560	28,108	6,284
Test or Containerboard	164	46	4,306	771	14,793	2,502
Semichemical Corrugating	-	-	-	-	-	-
Other Paperboard	7,607	2,196	8,778	2,789	13,315	3,784
WET MACHINE BOARD	3,814	2,551	6,988	4,239	3,608##	1,719##
CONSTRUCTION PAPER & BOARD. TOTAL	84,363	14,672	93,155	17,648	135,274	27,830
Building Paper	69,235	12,127	74,149	14,630	92,273	20,497
Insulating and Other Building Board	15,128	2,545	19,006	3,020	43,000	7,332
PAPER AND PAPERBOARD PRODUCTS, TOTAL	35,857	62,071	62,148	99,735	83,844#	122,292*
PAPER PRODUCTS, TOTAL	34,201	59,004	60,086	95,983	82,054#	117,883*
Printing & Book Paper	6,770	19,813	11,536	33,843	12,787	40,283
Writing & Related Paper	12,107	15,088	28,227	27,169	33,582#	32,746
Special Industrial Paper	12,285	22,277	11,566	29,959	10,936	30,719
Tissue Paper	3,309	1,826	8,756	5,011	24,749	14,135
PAPERBOARD PRODUCTS, TOTAL	1,656	3,064	2,061	3,752	1,790	4,408
Hard Pressed Board (Not in totals)	**92,448**	**12,107**	**168,935**	**22,683**	**210,581**	**29,889**

* Includes Mixtures and Screenings

** Included with Sulphate Pulp Imports

# Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products

## Excludes Imports of Leatherboard from 1977 on, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

	29,007		33,865		44,376

TABLE XIII (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1978		1979		1980	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	13,155,023	3,977,336	13,519,117	4,767,233	12,918,160	5,200,879
WOOD PULP, ALL GRADES, TOTAL	4,024,156	1,086,348	4,317,522	1,465,169	4,050,919	1,683,655
Dissolving and Special Alpha	188,714	56,173	193,114	67,993	262,747	110,202
Sulphite, Paper Grades, Total	484,455	137,433	592,876	206,243	426,745	177,953
Bleached	417,002	120,810	480,609	171,802	317,468	138,825
Unbleached	67,453	16,623	112,267	34,441	109,277	39,127
Sulphate, Paper Grades, Total	3,143,221	853,073	3,330,202	1,142,638	3,188,092	1,351,402
Bleached	2,813,033	769,668	3,011,959	1,042,501	2,904,205	1,239,720
Semi-Bleached	130,335	34,865	150,196	50,448	140,342	58,245
Unbleached	199,853	48,540	168,047	49,689	143,545	53,437
Soda	**	**	**	**	**	**
Groundwood	161,594	28,362	162,509	35,601	148,499	33,849
Other *	46,172	11,306	38,821	12,694	24,836	10,249
WASTE PAPER	17,783	1,294	78,395	11,189	87,064	17,188
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	9,113,084	2,813,639	9,123,200	3,208,026	8,780,177	3,417,898
PAPER AND PAPERBOARD, TOTAL	9,023,644	2,639,761	9,027,147	2,984,897	8,686,416	3,172,991
PAPER, TOTAL	8,591,591	2,562,381	8,559,716	2,896,107	8,113,036	3,063,627
Newsprint	7,483,720	2,111,649	7,222,701	2,300,450	7,279,349	2,637,857
Uncoated Printing & Conv. Paper	724,807	255,753	947,270	365,287	603,501	267,339
Groundwood, Uncoated	521,603	177,009	804,596	295,996	487,973	204,873
Book, Uncoated	203,204	78,744	142,674	69,291	115,528	62,466
Coated and Impregnated Paper	213,658	109,203	188,846	108,590	114,927	68,868
Writing & Related Paper, Total	19,045	19,932	40,144	36,604	20,173	26,320
Writing Papers	10,785	11,791	25,220	24,547	13,852	18,138
Thin Paper	7,307	5,648	14,924	12,057	6,321	8,182
Other Fine Paper	954	2,493	-	-	-	-
Bristols	618	427	2,247	1,243	1,077	739
Packaging & Industrial Converting Paper, Total	136,727	57,448	137,914	69,686	88,074	56,501
Unbleached Kraft	64,623	19,292	66,816	24,551	33,889	14,293
Other Packaging & Converting	67,131	33,282	65,556	39,295	50,443	36,307
Glassine & Greaseproof	4,906	4,645	5,475	5,614	3,679	5,654
Vegetable Parchment	66	229	67	226	62	248
Special Industrial Paper	1,097	1,603	3,282	4,525	1,819	3,[illegible]2
Tissue Paper	11,919	6,366	17,312	9,722	4,116	2,467
PAPERBOARD, TOTAL	99,845	18,246	82,203	19,111	97,583	25,576
Test or Containerboard	31,860	5,186	25,725	6,021	43,472	11,340
Semichemical Corrugating	-	-	33,494	5,889	31,349	6,156
Other Paperboard	67,985	13,060	22,984	7,201	22,762	8,080
WET MACHINE BOARD	2,614	1,440	2,345	1,341	2,118	1,395
CONSTRUCTION PAPER & BOARD, TOTAL	329,594	57,694	382,883	68,338	473,679	82,393
Building Paper	271,872	47,018	330,147	56,768	435,666	73,238
Insulating and Other Building Board	57,723	10,676	52,736	11,570	38,013	9,155
PAPER AND PAPERBOARD PRODUCTS, TOTAL	89,440	173,878	96,053	223,129	93,761	244,907
PAPER PRODUCTS, TOTAL	83,043	162,788	90,246	211,682	84,146	232,412
Printing & Book Paper	15,544	56,123	17,425	69,385	19,377	80,902
Writing & Related Paper	58,406	95,561	49,708	78,857	55,780	136,334
Packaging & Special Industrial Paper	6,690	8,928	19,657	59,180	5,792	10,368
Tissue Paper	2,403	2,176	3,456	4,260	3,197	4,808
PAPERBOARD PRODUCTS, TOTAL	6,397	11,090	5,807	11,447	9,615	12,494
Hard Pressed Board (Not in totals)	295,729	40,716	262,229	39,607	172,023	32,713

* Includes Mixtures and Screenings

** Included with Sulphate Pulp Imports

# Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.

## Excludes imports of Leatherboard, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	1978		1979		1980	
		76,054		82,849		82,138

TABLE XIV

EXPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1975		1976		1977	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	6,598,586	2,416,895	7,314,527	2,600,847	7,454,619	2,542,305
WOOD PULP ALL GRADES, TOTAL	2,564,536	875,512	2,517,566	844,429	2,640,052	875,027
Dissolving and Special Alpha	692,466	270,305	730,254	288,759	795,709	316,488
Sulphite, Paper Grades, Total	268,622	89,803	193,690	62,039	200,722	60,051
Bleached	245,789	84,133	181,276	58,432	192,455	57,983
Unbleached	22,833	5,670	12,414	3,607	8,267	2,069
Sulphate, Paper Grades, Total	1,561,707	502,845	1,519,731	472,035	1,562,381	478,895
Bleached	1,336,787	453,645	1,301,183	424,816	1,293,954	410,569
Semi-Bleached	128,997	25,688	105,153	25,787	164,166	49,062
Unbleached	95,923	23,512	113,395	21,432	104,261	19,264
Mechanical, Semi-Chemical & Other	41,741	12,559	73,891	21,596	81,240	19,591
COTTON PULP & OTHER FIBER	56,691	33,082	69,554	36,202	72,584	39,202
WASTE PAPER	861,388	76,396	1,272,736	116,154	1,512,417	132,798
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	3,115,971	1,314,954	3,454,671	1,499,683	3,229,566	1,393,749
PAPER AND PAPERBOARD, TOTAL	2,820,754	1,085,131	3,128,828	1,234,962	2,893,712	1,106,227
PAPER, TOTAL	947,342	546,201	928,421	596,215	715,607	490,950
Newsprint	165,074	51,621	126,519	41,237	128,674	42,544
Uncoated Groundwood	74,682	37,492	70,616	38,817	54,087	30,597
Coated Printing and Converting Paper	122,784	75,823	106,671	76,847	99,005	76,935
Coated Groundwood	41,593	24,187	36,567	23,689	39,839	26,656
Coated Book	81,191	51,636	70,104	53,158	59,166	50,279
Uncoated Book	34,803	20,953	42,062	27,601	26,466	19,196
Writing and Related Papers, Total	173,143	165,150	206,192	199,314	156,161	146,688
Writing Paper	93,057	67,351	103,877	63,782	80,345	51,974
Cigarette (See also Products)	2,308	3,828	3,140	4,673	1,783	2,346
Other Writing and Related Papers	77,778	93,971	99,175	130,859	74,033	92,368
Unbleached Kraft Packaging & Industrial Conv. Papers, Total	220,293	74,778	218,973	74,740	115,233	44,751
Unbleached Kraft exc. Shipping Sack	90,161	30,414	73,617	28,204	48,311	18,837
Shipping Sack Paper	78,545	26,443	63,022	17,573	39,295	11,735
Kraft Paper & Papbd. Uncoated, n.e.c.	51,587	17,921	82,335	28,963	27,627	14,179
Glassine, Greaseproof & Veg. Parchment	11,111	4,945	10,661	7,875	5,383	4,342
Other Pkg. & Industrial Conv. Papers	36,079	20,332	25,183	16,860	20,708	13,710
Special Industrial Paper, Total	78,667	78,083	101,798	99,518	94,053	101,558
Special Industrial	61,959	57,466	82,646	75,593	75,445	77,521
Absorbent Papers	16,708	20,617	19,153	23,926	18,608	24,036
Tissue Paper, Total	30,705	17,025	19,746	13,406	15,837	10,629
Sanitary Tissue	28,308	14,705	17,509	10,972	13,354	7,975
Other Tissue	2,397	2,320	2,237	2,434	2,483	2,653
PAPERBOARD TOTAL	1,807,702	516,556	2,133,584	613,740	2,119,784	592,264
Kraft Linerboard	1,224,211b	309,397	1,419,361	340,724	1,428,038	317,575
Other Kraft Paperboard	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Corrugating Medium	36,796	6,819	55,275	10,664	48,501	7,714
Bleached Pkg. Paperboard, Total	284,203	113,467	352,638	147,184	374,823	160,090
Special Food Board	72,957	28,696	90,858	35,761	82,383	33,628
Special Food Board Impregnated or Coated	134,461	55,459	199,162	86,357	239,136	103,357
Kraft Paperboard, n.e.c.(a)	76,785	29,312	62,618	25,066	53,304	23,106
Recycled Furnish Paperboard, Total	262,491	86,873	306,310	115,168	268,422	106,885
Boxboard & Related Boards	132,506	40,456	109,229	41,892	107,372	44,742
Special Paperboard	90,016	29,473	144,166	50,785	113,581	41,918
Other Paperboard	39,968	16,943	52,915	22,491	47,469	20,224
WET MACHINE BOARD	6,136	3,740	6,617	4,478	8,051	4,855
CONSTRUCTION PAPER & BOARD, TOTAL	59,574	18,634	60,206	20,528	50,270	18,158
Building Paper	27,211	9,133	29,527	8,868	16,328	6,355
Insulating Board	32,363	9,501	30,679	11,660	33,942	11,807
PAPER AND PAPERBOARD PRODUCTS, TOTAL	295,217	229,823	325,843	264.721	335,854	287,522
PAPER PRODUCTS,TOTAL	148,696	156,257	168,153	183,397	169,198	199,485
Cig. Paper Cut to Size, Books, etc.	17,480	27,042	16,584	27,213	19,526	32,576
PAPERBOARD PRODUCTS, TOTAL	146,522	73,566	157,690	81,324	155,659	88,037
Hard Pressed Board (Not in Totals)	55,397	15,897	65,735	20,361	59,203	21,329

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

116,951 104,379 101,530

TABLE XIV (Cont.)

EXPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1978		1979		1980	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	7,659,629	2,578,949	8,971,709	3,358,211	11,832,242	4,849,934
WOOD PULP ALL GRADES, TOTAL	2,598,952	817,102	2,934,815	1,103,783	3,805,549	1,652,099
Dissolving and Special Alpha	757,486	304,841	764,466	343,076	768,975	393,384
Sulphite, Paper Grades, Total	210,479	63,154	256,830	94,968	348,097	154,199
Bleached	190,380	58,971	218,950	84,696	322,212	146,084
Unbleached	20,099	4,183	37,930	10,272	25,885	8,115
Sulphate, Paper Grades, Total	1,568,720	436,320	1,843,213	647,535	2,607,736	1,078,233
Bleached	1,400,209	394,434	1,632,320	583,516	2,402,619	1,010,204
Semi-Bleached	92,969	26,876	106,874	33,807	92,121	27,994
Unbleached	75,542	15,010	104,019	30,212	112,996	40,035
Mechanical, Semi-Chemical & Other	62,267	12,787	70,256	18,204	80,741	26,283
COTTON PULP & OTHER FIBER	88,481	47,987	131,444	74,579	148,485	92,607
WASTE PAPER	1,599,449	145,884	2,233,246	256,107	2,664,272	322,195
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	3,372,747	1,560,453	3,672,203	1,913,940	5,213,936	2,772,733
PAPER AND PAPERBOARD, TOTAL	2,895,733	1,108,083	3,109,859	1,328,320	4,581,878	2,052,406
PAPER, TOTAL	542,676	415,574	600,876	507,568	907,747	737,363
Newsprint	82,454	29,947	71,456	32,046	174,869	86,403
Uncoated Groundwood	58,109	37,154	80,392	55,384	100,951	71,716
Coated Printing & Converting Paper	73,592	54,358	73,521	57,743	92,351	75,160
Coated Groundwood	33,758	21,294	38,384	27,690	44,503	35,783
Coated Book	39,834	33,064	35,137	30,054	47,848	39,377
Uncoated Free Sheet 1/	84,896	66,185	68,159	64,146	88,313	94,826
Thin (Exc. Cigarette) 1/	26,544	29,953	32,357	36,741	33,835	42,036
Cotton Fiber	12,216	13,366	10,937	12,685	16,608	16,387
Bristols 1/	10,740	7,784	9,242	6,671	8,801	5,975
Unbleached Kraft Packaging & Industrial Conv. Papers, Total	45,442	17,440	63,695	27,079	142,825	61,346
Unbleached Kraft exc. Shipping Sack	25,030	10,725	35,705	16,651	77,154	36,172
Shipping Sack Paper	20,412	6,714	27,990	10,428	65,671	25,174
Glassine, Greaseproof & Veg. Parchment	7,865	6,550	7,702	7,761	8,490	9,751
Other Pkg. & Ind. Conv. Papers	35,613	22,915	32,385	22,935	37,211	27,920
Special Industrial Paper, Total	84,075	112,108	123,125	160,441R	142,254	192,324
Special Industrial	74,019	94,306	110,557	135,864	129,566	165,754
Absorbent Papers	10,056	17,802	12,568	24,577R	12,688	26,570
Tissue Paper, Total	21,130	17,814	27,905	23,934	60,939	53,521
Sanitary Tissue	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other Tissue	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PAPERBOARD TOTAL	2,281,653	662,216	2,446,972	789,902	3,608,752	1,283,130
Kraft Linerboard (a)	1,539,510	344,110	1,644,901	434,515	2,527,245	790,070
Other Kraft Paperboard (Unbleached)	65,833	22,330	100,301	33,739	163,825	60,633
Corrugating Medium	32,051(c)	5,724	17,358	5,208	62,884	17,264
Bleached Packaging Paperboard, Total	440,724(d)	204,423	508,601	238,813	606,044	314,751
Special Food Board	86,950	36,995	59,248	26,355	20,630	10,932
Special Food Board Impregnated or Ctd.	353,774(d)	167,428	416,649	198,879d	559,895	290,655
Kraft Paperboard, n.e.c. (b)	N.A.	N.A.	32,704	13,579	25,519	13,164
Recycled Furnish Paperboard, Total	203,535	85,611	175,811	77,626	248,754	100,412
Boxboard & Related Boards	109,102	49,542	70,652	32,260	101,186	42,470
Special Paperboard	60,794	26,629	67,768	33,918	63,210	35,413
Other Paperboard	33,639	9,440	37,391	11,448	84,358	22,528
WET MACHINE BOARD	7,554	4,805	7,371	5,146	8,017	5,258
CONSTRUCTION PAPER & BOARD, TOTAL	63,850	25,485	54,642	25,704	57,662	26,655
Building Paper	37,166	13,220	34,020	14,420	31,436	13,299
Insulating Board	26,684	12,265	20,623	11,284	26,226	13,356
PAPER AND PAPERBOARD PRODUCTS, TOTAL	477,014	452,373	562,343	585,620	632,058	720,328
PAPER PRODUCTS, TOTAL	274,884	326,728	332,407	427,080	378,581	523,511
Cig. Paper Cut to Size, Books, etc.	21,919	37,416	25,143	45,947	25,141	49,308
PAPERBOARD PRODUCTS, TOTAL	202,130	125,645	229,936	158,540	253,477	196,817
Hard Pressed Board (Not in Totals)	25,571	8,541	32,030	11,223	28,900	10,705

NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000) $7,523 $9,803 $10,300

1/ Grade structure revised in 1978

(a) - Contains Bleached Kraft Linerboard reported as follows: (Tons) 1972 - 150,484; 1973 - 69,929; 1974 - 133,682; 1975 - 149,483; 1976 - 131,524; 1977 - 130,545; 1978 - 194,422; 1979 - 179,995; 1980 - 233,924 (b) - Contains some Bristols and Other Paperboard.

(c) Excludes Recycled Corrugating Medium: 9,503 tons. (d) - Includes Bleached Folding Boxboard - Not Reported Separately.

* Not comparable to prior years

TABLE XV

VALUE OF SHIPMENTS OF PRODUCT CLASSES

1974 - 1978

(Millions of Dollars)

CODE		1974	1975	1976	1977	1978
26	**PAPER AND ALLIED PRODUCTS (1)**	$40,108.3	$40,051.8	$46,322.1	$50,356.5	$55,065.6
2611-	Pulp	2,386.9	2,309.6	2,521.4	2,466.4	2,499.5
26111	Special Alpha and Dissolving Woodpulp	535.3	491.3	562.2	570.5	550.7
26112	Other Pulp, Including Byproducts, Exc Tall Oil...	1,850.8	1,816,8	1,957.6	1,894.8	1,948.4
26110	Pulp, N.S.K	0.8	1.6	1.6	1.1	0.4
2621-	Papermill Products, except Building Paper	9,574.7	9,368.4	11,361.6	12,438.2	13,535.7
26211	Newsprint	669.9	828.2	898.5	989.3	1,039.8
26212	Groundwood Paper, Uncoated	361.5	402.5	480.4	539.0	593.9
25213	Clay Coated Printing and Converting Paper	1,611.1	1,473.0	1,953.2	2,260.9	2,572.1
26214	Book Paper, Uncoated	1,238.4	1,073.3	1,358.4	3,352.7*	3,761.5*
26215	Bleached Bristols (Exc. Cotton Fiber)	384.1	355.0	415.4	474.3	504.4
26216	Writing and Related Papers	2,016.2	1,771.5	2,217.4	*	*
26216(77)	Cotton Fiber Paper and Thin Paper				496.1	536.4
26217	Unbleached Kraft Packaging & Ind. Converting Paper..	951.6	873.2	1,040.5	1,098.7	1,137.7
26218	Packaging and Ind. Conv. Paper, Exc. Unbl. Kraft....	499.5	438.8	519.4	560.6	626.8
26219	Special Industrial Paper	433.7	387.7	464.3	550.7	522.6
26210	Tissue Paper, and Papermill Products, N.S.K	1,408.7	1,765.2	2,014.1	2,115.9	2,240.6
2631-	Paperboard Mill Products	5,503.6	5,251.7	6,207.5	6,434.7	6,988.8
26311	Unbleached Kraft Packaging & Ind. Conv. Paperboard..	2,311.4	2,238.7	2,635.1	2,697.2	2,939.2
26312	Bleached Packaging & Ind. Converting Paperboard	1,020.4	1,092.6	1,330.9	1,364.6	1,530.1
26313	Semichemical Paperboard	627.0	654.0	751.9	748.9	784.3
26314	Recycled Paperboard	1,455.8	1,186.6	1,379.3	1,562.7	1,668.2
26318	Wet Machine Board	71.5	69.0	77.6	59.3	63.6
26310	Paperboard Mill Products, N.S.K	(17.5)	(10.7)	32.7	2.0	(S)
2641-	Coated and Glazed Paper	2,349.6	2,198.4	2,653.0	3,043.2	3,320.2
26411	Printing Paper Coated at Estab. not making Paper...	144.7	145.3	174.7	172.0	217.7
26412	Oiled, Waxed and Wax-Laminated Paper	199.1	216.3	242.8	256.3	257.6
26413	Gummed Products	185.7	163.5	167.5	187.6	199.2
26414	Pressure Sensitive Tape and Labels (Unprinted)	794.4	732.6	889.7	1,177.7	1,305.1
26417	Laminated, Coated Rolls, Sheets, for Pkg Uses	507.7	481.3	601.5	697.1	831.6
26418	Other Coated Processed Paper, Except Pkg & Waxed....	493.5	457.1	570.6	421.1	425.7
26410	Coated and Glazed, N.S.K	(24.5)	(2.3)	(6.2)	131.3	(S)
26420	Envelopes(Excluding Stationary Envelopes)	(812.8)	805.5	842.8	980.6	1,140.4
2643-	Bags, Except Textile Bags	2,837.9	2,915.3	3,248.1	3,304.1	3,819.1
26431	Grocers' & Variety Bags and Shopping Bags	765.3	773.3	814.7	801.6	912.9
26432	Specialty Bags and Liners	1,222.6	1,419.5	1,602.5	1,615.7	1,874.7
26433	Shipping Sacks and Multiwall Bags	668.0	569.6	663.2	672.6	714.0
26430	Bags, Except Textile Bags, N.S.K	(182.0)	(152.9)	(167.8)	214.3	(S)
2645-	Die-Cut Paper and Board	884.3	882.2	983.2	1,034.3	1,156.4
26451	Office Supplies and Misc. Products	474.9	469.3	513.2	484.9	517.3
26452	Pasted, Lined, Laminated, or Coated Paperboard	399.5	402.1	446.6	438.4	474.8
26450	Die-Cut Paper and Board, N.S.K	(9.9)	(10.8)	(23.4)	111.0	163.4
2646-	Pressed and Molded Pulp Goods	201.0	203.3	218.9	239.6	221.6
26461	Bituminous Fiber Pipe,	19.4	13.9	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	181.6	188.2	(208.4)	225.9	209.5
26460	Pressed and Molded Pulp Goods, N.S.K	-	(1.2)	(D)	(D)	(D)
2647-	Sanitary Paper Products	3,040.7	3,647.1	4,186.7	4,562.6	5,105.5
26471	Sanitary Napkins and Tampons	331.2	384.0	445.6	588.7	581.0
26472	Sanitary Tissue Health Products	2,692.7	3,257.9	3,720.3	3,948.3	4,475.2
26470	Sanitary Paper Products, N.S.K	16.8	5.1	20.8	25.6	(S)
2648-	Stationery Products	486.2	483.1	509.9	630.5	717.7
26481	Stationery	119.9	128.9	129.9	141.2	171.1
26482	Tablets and Related Products	351.4	344.6	371.8	425.5	463.7
26480	Stationery Products, N.S.K	(14.9)	(9.6)	(8.2)	63.8	(S)
2649-	Converted Paper Products N.E.C	1,073.3	1,107.4	1,267.4	1,748.8	1,808.7
26492	Wrapping Products (Gift Wrap, etc.)	(241.3)	(217.5)	(271.2)	251.5	267.4
26493	Wallcoverings	181.4	(187.0)	(207.2)	306.5	287.8
26495	Other Converted Paper and Board Products	653.8	700.4	783.2	948.1	1,032.9
26490	Converted Paper Products,N.E.C, N.S.K	(3.2)	(2.5)	(5.8)	242.7	(S)
26510	Bending Paperboard Packagng and Pkg. Components	1,806.6	1,874.7	2,162.3	2,393.4	2,667.4
26520	Setup Paperboard Boxes	400.1	343.7	405.7	377.7	417.0
26530	Corrugated and Solid Fiber Boxes, Inc. Pallets	5,867.4	5,733.4	6,530.2	7,182.8	7,893.9
2654-	Sanitary Food Containers	1,506.3	1,616.0	1,743.9	1,964.9	2,065.6
26541	Milk and Other Beverage Cartons (Paperboard)	383.6	468.0	472.6	480.0	465.9
26542	Cups and Liquid-Tight Containers (Paperboard)	506.5	535.1	601.6	594.1	632.5
26543	Other Sanitary Food Containers, Boards, and Trays...	612.5	609.5	662.0	842.2	917.2
26540	Sanitary Food Containers, (Paperboard) N.S.K	(3.6)	(3.4)	(7.7)	48.6	(S)
2655-	Fiber Cans, Drums, and Similar Products	908.8	907.9	1,000.1	1,040.4	1,143.7
26551	Paperboard Fiber Drums	207.9	191.5	212.6	223.8	234.3
26552	Fiber Cans, Tubes, and Similar Fiber Products	681.4	700.0	760.9	782.6	875.8
26550	Fiber Cans, Drums and Similar Products, N.S.K	(19.5)	16.4	26.6	34.0	(S)
2661-	Building Paper and Board	468.1	404.1	479.4	514.3	564.4
26611	Insulating Board	205.5	170.3	205.2	222.2	238.8
26612	Construction Paper	256.5	225.6	262.6	291.8	325.3
26610	Building Paper and Board, N.S.K	6.1	(8.3)	(11.6)	0.3	0.3

SOURCE: 1974, 1975, 1976, 1978 Survey of Manufactures - Bureau of Census
1977 Census of Manufactures-Preliminary Reports - Bureau of the Census
* - Uncoated Free Sheet = Uncoated Book plus Writing and Related
N.S.K. - Not Specified by Kind
( ) - Largely Estimated
N.E.C. - Not Elsewhere Clasified

(1) Sum of reported data
(D) Data witheld to avoid disclosure
(S) Not up to statistical standard

SECTION II

REGIONAL DATA

This section includes tables on 1978 and 1979 regional production of wood pulp, paper and paperboard, and consumption of pulpwood and wood pulp in 1979, as published by the Bureau of Census. It also includes state data on employees, payrolls, wages, value added, value of shipments and capital expenditure, by state, for the entire Paper and Allied Products Industry Group (SIC 26) as published in the 1978 Survey of Manufactures.

TABLE XVI

STATE DATA - 1978

(000 Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD PRODUCTION: Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	74,179,985	49,694,040	64,300,395	28,505,617	30,033,470	136,337	5,624,971
Northeast	6,500,577	4,069,961	10,981,683	7,613,994	2,348,551	87,822	931,316
New England	4,124,141	2,597,079	5,094,434	4,096,399	800,140	29,045	168,850
Maine	3,552,467	2,149,447	2,946,800	2,883,574	254,834(3)	(D)	(D)
New Hampshire			513,479	310,410		(D)	-
Massachusetts			881,141	617,578	249,365	(D)	(D)
Vermont	571,654	9,632	1,552,180		(3)	-	(D)
Rhode Island				1,955,586	-	-	(D)
Connecticut			426,507		295,941	(D)	(D)
Middle Atlantic	2,376,436	1,472,864	5,887,249	3,517,595	1,548,411	58,777	762,466
New York	318,397S	549,146	2,079,542	1,604,275	355,418	-	119,849
New Jersey	56,619S	95,473	1,285,409	405,830	579,983	(D)	642,617
Pennsylvania	701,049S	827,975	2,522,298	1,507,490	613,010	(D)	
North Central	5,491,521	4,112,199	11,987,759	6,387,744	4,228,606		1,371,409
East North Central	4,226,450	2,990,754	10,128,846	5,542,884		3,827,880	758,082
Ohio	(D)	428,113	2,114,874	933,235	1,102,200	-	79,439
Indiana	(D)	153,879	571,131	197,280	517,106	-	(D)
Illinois	70,230H		1,093,889		519,433	(D)	(D)
Michigan	903,019H	922,907	2,541,946	1,261,415	(D)	-	(D)
Wisconsin	2,371,323	1,485,855	3,806,996	3,150,954	(D)	-	(D)
West North Central	1,265,071	1,121,445	1,858,913	844,860	(D)	-	(D)
Minnesota	779,303H	946,336	1,444,241	(D)	(D)	-	(D)
Iowa	(D)	175,109	150,164	-	(D)	-	(D)
Missouri	(D)		180,278	(D)	(D)	-	(D)
Kansas	-	-	84,230	-	(D)	-	(D)
South	48,821,336	33,630,787	32,906,226	11,069,031	19,239,667		2,597,528
South Atlantic	23,702,873	16,442,049	15,621,395	4,167,569	10,424,433		1,029,393
Delaware	-	-	105,575(2)	(D)	(D)	-	-
Maryland	(D)	(D)	546,906	(D)	(D)	-	(D)
Virginia	1,535,841	2,275,208	2,666,397	(D)	1,703,892	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,549,077	2,861,257(1)	2,364,599	(D)	1,126,970	-	(D)
South Carolina	3,518,165	2,474,251	2,338,893	(D)	1,784,167	-	(D)
Georgia	7,872,542	5,419,982	4,989,686	961,020	3,650,890	-	377,776
Florida	4,714,707S	3,411,351	2,609,339	(D)	1,951,319	-	(D)
East South Central	11,899,439	8,393,021	8,105,167	3,000,169	4,234,510		970,488
Kentucky	(D)	1,686,864	(D)	(D)	(D)	-	-
Tennessee	429,432H		1,765,936	(D)	890,444	-	69,182
Alabama	6,459,298	4,322,765	4,172,689	1,779,428	(D)	-	(D)
Mississippi	1,862,736S	2,383,392	(D)	(D)	(D)	-	(D)
West South Central	13,219,024	8,795,717	9,179,664	3,901,293	4,580,724	-	697,647
Arkansas	597,711H	1,297,123	2,022,516	(D)	(D)	-	(D)
Louisiana	6,341,705	3,831,669	3,813,699	1,600,102	(D)	-	(D)
Oklahoma	(D)	3,666,925	1,016,034	-	(D)	-	(D)
Texas	3,522,042		3,237,415	(D)	878,501	-	(D)
WEST	12,783,919	7,881,093	8,424,727	3,438,848	4,216,646	-	773,233
Mountain	1,895,162	1,082,460	1,116,014	(D)	(D)	-	-
Montana	(D)	(D)	(D)	-	(D)	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	(D)	(D)	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	(D)	(D)	(D)	(D)	(D)	-	-
Utah	-	-	(D)	-	(D)	-	-
Pacific	11,461,757	6,798,633	7,308,713	(D)	(D)	-	773,233
Washington	5,176,829	2,849,113	2,198,922	1,346,054	(D)	-	(D)
Oregon	3,961,897S	2,792,091	3,071,765	1,288,'38	1,380,879	-	402,748
California	1,495,874S	1,157,429	2,038,026	(D)	1,081,242	-	(D)
Alaska	558,363		-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1978
Series: M26A (78)-13 U.S. Department of Commerce, Washington, D.C.

* - 128 Cu. Ft. roughwood basis
- - Represents zero
S - Softwood pulpwood only, excludes hardwood pulpwood   H - Hardwood pulpwood only, excludes softwood pulpwood
(D) - Withheld by Commerce Department to avoid disclosure
1/ - Includes wood pulp production in Maryland   2/ - Includes paper and paperboard production in West Virginia
3/ - Vermont paperboard production included in Maine-New Hampshire total

TABLE XVI (Cont.)

STATE DATA - 1979

(000 Short Tons)

Geographic Areas	PULPWOOD CONSUMPION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD PRODUCTION				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	77,361,518	50,612,015	66,607,595	30,011,834	30,935,763	144,088	5,515,910
Northeast	6,748,496	4,281,581	11,158,219	7,750,009	2,336,645	97,018	974,547
New England	4,291,004	2,758,212	5,123,429	4,146,280	793,564	29,632	153,953
Maine	3,729,636	2,329,394	2,970,068	2,906,053	(D)	(D)	(D)
New Hampshire	(D)	(D)	592,776	352,587	(D)	(D)	-
Massachusetts	-	-	929,329	642,708	271,826	(D)	(D)
Vermont	(D)	(D)	237,308		(D)	-	(D)
Rhode Island	(D)	(D)		244,932	-	-	(D)
Connecticut	(D)	(D)	393,948		260,352	(D)	(D)
Middle Atlantic	2,457,492	1,523,369	6,034,790	3,603,729	1,543,081	67,386	820,594
New York	316,791S	558,481	2,195,535	1,727,469	359,417	-	108,649
New Jersey	49,659S	68,330	1,271,181	380,217	565,494	(D)	(D)
Pennsylvania	1,650,815	896,558	2,568,074	1,496,043	618,170	(D)	(D)
North Central	5,727,583	4,563,179	12,792,363	6,984,379	4,407,393	(D)	(D)
East North Central	4,540,791	3,280,502	10,713,896	6,044,142	(D)	(D)	683,597
Ohio	(D)	461,013	2,156,258	944,018	1,143,590	-	68,650
Indiana	(D)	(D)	616,623	(D)	560,834	-	(D)
Illinois	65,568H	(D)	1,040,633	(D)	489,608	(D)	(D)
Michigan	868,054H	955,295	2,538,189	1,290,429	(D)	-	(D)
Wisconsin	2,639,960	1,710,579	4,362,193	3,593,926	(D)	-	(D)
West North Central	1,186,792	1,282,677	2,078,467	940,237	(D)	-	(D)
Minnesota	745,380H	1,123,210	1,676,632	(D)	(D)	-	(D)
Iowa	(D)	(D)	142,766	-	(D)	-	(D)
Missouri	(D)	(D)	175,462	(D)	(D)	-	(D)
Kansas	-	-	83,607	-	(D)	-	(D)
South	49,847,070	33,971,263	33,215,550	11,176,008	19,610,525	(D)	(D)
South Atlantic	24,425,710	16,255,245	15,820,916	4,168,204	10,689,498	(D)	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	529,120	(D)	(D)	-	(D)
Virginia	1,523,472H	2,105,086	2,549,453	(D)	1,761,207	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,523,891	(D)	2,344,215	(D)	1,110,312	-	(D)
South Carolina	3,636,081	2,535,165	2,368,098	(D)	1,836,010	-	(D)
Georgia	8,531,116	5,590,249	5,315,641	1,097,523	3,855,956	-	362,162
Florida	4,684,006S	3,427,175	2,616,747	(D)	1,929,328	-	(D)
East South Central	12,385,731	8,681,490	8,408,931	3,157,653	4,465,730	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	433,165H	(D)	1,816,406	(D)	916,447	(D)	61,205
Alabama	6,657,294	4,266,279	4,383,994	1,900,188	(D)	-	(D)
Mississippi	1,977,325	2,375,599	(D)	(D)	(D)	-	(D)
West South Central	13,035,629	8,767,528	8,985,703	3,850,151	4,455,297	-	680,255
Arkansas	627,267H	1,290,188	2,115,020	(D)	(D)	-	(D)
Louisiana	5,799,867	3,833,018	3,546,432	1,458,635	(D)	-	(D)
Oklahoma	(D)	(D)	1,018,891	-	(D)	-	(D)
Texas	3,814,463	(D)	2,305,360	(D)	774,301	-	(D)
West	15,038,369	7,795,992	9,441,463	4,101,438	4,581,200	-	758,825
Mountain	1,997,455	1,133,496	1,193,951	(D)	(D)	-	(D)
Montana	(D)	(D)	(D)	-	(D)	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	(D)	(D)	-	(D)
New Mexico	-	-	-	-	-	-	-
Arizona	(D)	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	13,040,914	6,662,496	8,247,512	(D)	(D)	-	752,136
Washington	6,061,790	3,313,177	2,781,355	1,727,557	(D)	-	(D)
Oregon	4,412,475S	2,390,755	3,337,365	1,496,711	1,444,830	-	395,824
California	1,563,692S	(D)	2,128,792	(D)	1,129,376	-	342,711
Alaska	558,277	(D)					

SOURCE: Bureau of the Census - Current Industrial Report, Pulp, Paper and Board 1979
Series M26A (79)-13 U.S. Department of Commerce, Washington, D.C.

* - 128 Cu. Ft. roughwood basis
- - Represents zero
S - Softwood pulpwood only, excludes hardwood pulpwood   H - hardwood pulpwood only, excludes softwood pulpwood
(D) - Withheld by Commerce Department to avoid disclosure
1/ - Includes wood pulp production in Maryland   2/ Includes paper and paperboard production in West Virginia
3/ - Vermont paperboard production included in Maine-New Hampshire total

TABLE XVII

REGIONAL CAPACITY OF THE PAPER INDUSTRY

PULP, PAPER AND BOARD: NUMBER OF MILLS AND CAPACITY

(000 short tons)

	PAPER AND PAPERBOARD					WOOD PULP				
	1979		1980F	1981F	1982F	1979		1980F	1981F	1982F
	Number of Mills	Annual Capacity	Annual Capacity	Annual Capacity	Annual Capacity	Number of Mills	Annual Capacity	Annual Capacity	Annual Capacity	Annual Capacity
NORTHEAST	226	12,202	12,233	12,418	12,717	40	4,707	4,706	4,815	4,910
New England	100	5,664	5,720	5,882	6,097	20	3,253	3,251	3,351	3,443
Maine	20	3,359	3,437	3,627	3,821	15	2,796	2,796	2,895	2,987
New Hampshire	19	640	614	596	896	2				
Vermont	8	(D)	(D)	(D)	(D)	1				
Massachusetts	39	946	940	914	926	0	457	455	456	456
Rhode Island	1	(D)	(D)	(D)	(D)	1				
Connecticut	13	439	448	462	469	1				
Middle Atlantic	126	6,538	6,513	6,536	6,620	20	1,454	1,455	1,464	1,467
New York	58	2,396	2,410	2,423	2,468	9	586	603	612	613
New Jersey	28	1,568	1,511	1,519	1,522	3	105	78	76	76
Pennsylvania	40	2,574	2,592	2,594	2,630	8	763	774	776	778
NORTH CENTRAL	171	12,901	13,122	13,320	13,559	57	4,376	4,481	4,504	4,564
East North Central	52	11,063	11,268	11,458	11,648	44	3,432	3,589	3,609	3,649
Ohio	35	2,500	2,500	2,501	2,548	7	603	625	627	627
Indiana	14	736	746	763	765	1				
Illinois	22	1,136	1,087	1,084	1,084	7	266	278	278	278
Michigan	35	2,570	2,627	2,667	2,737	7	857	865	835	852
Wisconsin	46	4,121	4,305	4,443	4,514	22	1,706	1,821	1,869	1,892
West North Central	19	1,838	1,857	1,862	1,911	13	944	892	895	915
Minnesota	10	1,383	1,396	1,400	1,499	8	781	722	725	745
Iowa	3	(D)	(D)	(D)	(D)	2				
Missouri	5	222	232	233	233	3	163	170	170	170
North Dakota	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0	0	0
Kansas	1	(D)	(D)	(D)	(D)	0	0	0	0	0
SOUTH	184	34,376	35,725	36,573	38,049	120	35,270	36,343	37,537	38,576
South Atlantic	85	16,396	16,899	17,151	17,612	52	16,771	17,224	17,519	17,867
Delaware	5	(D)	(D)	(D)	(D)	0	0	0	0	0
Maryland	5	610	628	628	628	2	(D)	(D)	(D)	(D)
Virginia	15	2,871	3,029	3,150	3,195	9	2,565	2,,718	2,819	2,862
West Virginia	2	(D)	(D)	(D)	(D)		0	0	0	0
North Carolina	14	2,182	2,170	2,118	2,194	6	(D)	(D)	(D)	(D)
South Carolina	8	2,548	2,680	2,704	2,806	6	2,508	2,601	2,635	2,635
Georgia	24	5,261	5,477	5,640	5,694	19	5,527	5,664	5,791	5,925
Florida	12	2,801	2,790	2,786	2,970	10	3,621	3,612	3,618	3,721
East South Central	46	7,975	8,473	8,803	9,078	32	8,676	9,055	9,357	9,552
Kentucky	6	298	304	306	381	3	493	505	508	571
Tennessee	13	1,801	2,026	2,055	2,090	5	1,363	1,495	1,546	1,566
Alabama	17	4,351	4,592	4,859	4,947	17	5,032	5,298	5,546	5,636
Mississippi	10	1,525	1,551	1,583	1,660	7	1,788	1,757	1,757	1,779
West South Central	53	10,005	10,353	10,619	11,359	36	9,823	10,064	10,661	11,157
Arkansas	11	2,170	2,329	2,366	2,371	7	2,091	2,256	2,386	2,387
Louisiana	18	4,129	4,188	4,363	4,952	16	4,315	4,332	4,676	5,105
Oklahoma	8	1,170	1,213	1,230	1,352	3	815	811	811	827
Texas	16	2,536	2,623	2,660	2,684	10	2,602	2,665	2,788	2,838
WEST	76	9,474	9,716	10,237	10,470	43	9,288	9,397	9,962	10,106
Mountain	8	1,215	1,284	1,493	1,494	3	1,112	1,143	1,331	1,354
Montana	1	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Idaho	2	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Wyoming	0	0	0	0	0	0	0	0	0	0
Colorado	2	(D)	(D)	(D)	(D)	0	(	0	0	0
New Mexico	1	(D)	(D)	(D)	(D)	0	0	0	0	0
Arizona	2	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Utah	0	0	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0	0	0
Pacific, Hawaii and Alaska	68	8,259	8,432	8,744	8,976	40	8,176	8,254	8,631	8,752
Washington	16	3,017	3,079	3,291	3,418	16	4,007	3,988	4,240	4,348
Oregon	19	3,139	3,249	3,372	3,458	15	2,943	3,036	3,154	3,163
California	33	2,103	2,104	2,081	2,100	7				
Hawaii	0	0	0	0	0	0	1,226	1,230	1,237	1,241
Alaska	0	0	0	0	0	2				
TOTAL U.S.A.	657	68,953	70,796	72,548	74,795	260	53,641	54,927	56,818	58,156

(D) - Data withheld to avoid disclosure of individual company data. F - Forecast

SOURCE: Data received for 1979-1982 Capacity Survey, Paper, Paperboard, Wood Pulp - December 1980.

NOTE: Totals differ slightly from published data because of rounding.

TABLE XVIII

REGIONAL DATA ON THE PAPER INDUSTRY

PAPER AND ALLIED PRODUCTS - 1978 DATA

	Number of All Employees (000)	Total Payroll ($000,000)	Number of Production Workers (000)	Wages of Production Workers	Value Added by Manufacture	Value of Shipments	Capital Expenditures
				-----------------------	-----Million	Dollars-----	-----------------
NORTHEAST	185.1	2,702.5	141.7	1,839.2	6,369.8	14,343.0	804.5
New England	67.2	1,000.7	50.4	678.8	2,296.4	5,225.5	439.2
Maine	16.6	293.4	13.2	218.4	800.1	1,838.2	281.6
New Hampshire	6.9	101.5	5.1	64.0	206.7	551.7	26.9
Vermont	2.7	35.5	2.1	24.6	92.9	211.1	19.9
Massachusetts	31.2	422.0	22.8	277.7	853.4	1,889.5	77.0
Rhode Island	2.6	32.5	2.0	21.5	65.0	134.1	5.8
Connecticut	7.2	115.8	5.2	72.6	278.3	600.9	28.0
Middle Atlantic	117.9	1,701.8	91.3	1,160.4	4,073.4	9,117.5	365.3
New York	48.1	656.2	38.2	463.1	1,437.7	3,236.8	118.7
New Jersey	30.1	446.9	22.2	273.1	1,016.0	2,290.2	106.8
Pennsylvania	39.7	598.7	30.9	424.2	1,619.7	3,590.5	139.8
NORTH CENTRAL#	186.5	2,662.0	143.3	2,011.3	6,846.3	15,844.0	747.6
East North Central	152.1	2,354.6	116.2	1,648.2	5,484.7	12,894.2	612.3
Ohio	37.7	578.5	28.0	397.7	1,180.7	2,796.4	156.5
Indiana	14.1	189.9	10.7	127.7	436.2	991.6	25.9
Illinois	35.0	487.5	27.0	325.5	1,108.5	2,548.5	82.7
Michigan	23.4	388.3	17.7	274.5	844.3	2,132.8	83.8
Wisconsin	41.9	710.4	32.8	522.8	1,915.0	4,424.9	263.4
West North Central#	34.4	507.4	27.1	363.1	1,361.6	2,949.8	135.3
Minnesota	12.8	210.4	10.3	154.8	649.7	1,230.9	66.4
Iowa	5.2	71.2	4.0	50.9	174.4	444.2	13.3
Missouri	12.9	174.3	10.1	121.6	385.3	940.6	44.5
North Dakota	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-
Kansas	3.5	51.5	2.7	35.8	152.2	334.1	11.1
SOUTH#	194.3	3,075.2	150.8	2,224.6	8,065.1	19,161.2	1,710.0
South Atlantic#	99.3	1,545.0	76.4	1,102.1	3,875.8	9,453.1	787.6
Delaware	-	-	-	-	-	-	-
Maryland	10.3	135.7	7.0	77.4	338.4	702.0	47.1
Virginia	13.2	206.8	10.0	143.3	610.0	1,298.1	74.1
West Virginia	1.3	14.8	1.1	10.7	35.8	79.6	2.2
North Carolina	19.0	287.2	15.0	205.7	683.3	1,682.4	97.0
South Carolina	12.3	197.7	9.4	140.1	496.5	1,231.3	59.0
Georgia	27.0	437.9	21.1	323.8	1,098.1	2,850.1	428.0
Florida	16.2	264.9	12.8	201.1	613.7	1,609.6	80.2
East South Central	46.5	751.2	36.4	549.4	2,189.4	4,748.7	447.6
Kentucky	5.3	76.4	4.2	53.5	224.1	502.8	(D)
Tennessee	16.5	241.2	12.5	164.8	651.4	1,481.6	113.9
Alabama	18.0	324.2	14.3	247.2	996.0	2,067.5	303.9
Mississippi	6.7	109.4	5.4	83.9	317.9	696.8	29.8
West South Central	48.5	779.0	38.0	573.1	1,999.9	4,959.4	474.8
Arkansas	10.8	178.1	8.9	140.6	478.1	1,212.1	204.3
Louisiana	14.7	262.2	11.9	200.7	713.3	1,681.7	120.2
Oklahoma	2.0	31.0	1.6	22.5	104.6	295.9	(D)
Texas	21.0	307.7	15.6	209.3	703.9	1,769.7	150.3
WEST#	64.4	1,080.2	49.8	769.3	2,779.6	6,738.3	326.6
Mountain#	4.3	60.4	3.4	43.0	135.9	346.1	1.9
Montana	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-
Colorado	1.9	27.8	1.5	18.3	56.8	138.4	(D)
New Mexico	Z	.4	Z	.3	.9	2.4	(D)
Arizona	1.2	20.7	1.0	15.8	52.6	135.9	(D)
Utah	1.2	11.5	.9	8.6	25.6	69.4	1.9
Nevada	-	-	-	-	-	-	-
Pacific#	60.1	1,019.8	46.4	726.3	2,643.7	6,392.2	324.7
Washington	14.7	273.6	11.2	188.8	695.2	1,683.7	95.5
Oregon	9.4	178.0	7.2	126.9	544.6	1,212.3	102.5
California	36.0	568.2	28.0	410.6	1,403.9	3,496.2	126.7
Hawaii	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
TOTAL REPORTED	630.3	9,719.9	485.6	6,844.4	24,060.8	56,086.5	3,588.7
TOTAL U.S.A	638.6	9,852.3	491.8	6,939.6	24,396.0	57,000.0	3,736.3

SOURCE: 1978 Data. Annual Survey of Manufactures, U.S. Department of Commerce - Statistics for Divisions and States.

(D) - Data withheld to avoid disclosure of individual company data. # - Total Reported. Z - Does not meet publication standards.

- - Data not available separately. **Note:** Each state has at least one establishment in the Paper and Allied Products Industry.

SECTION III

INPUTS AND RELATED DATA

This section presents tables showing data on inputs of labor and materials required to manufacture paper and paperboard. It section also includes data on capital expenditure by the paper industry.

Table XIX presents data on fuel and energy use by wood pulp, paper and paperboard mills for 1972 and 1976-1980. These data are collected as part of the API's Energy Monitoring Systems. Chart 2, on page 47 shows the trends in the various types of fuel and energy used by mills during the 1972-1980 period. Note, in particular, the 25% decline in use of residual fuel from 1972 to 1980. The Energy Monitoring System also reported that the use of fossil fuel per ton of paper, paperboard and dried wood pulp production declined by 21% from 1972 to 1980, and that such fuel used per unit of activity at converting plants declined by 17.1% over that period.

Tables XX and XXI present data on waste paper collection and use for 1970-80. Table XX presents the data on sources and uses of waste paper for the period of 1970-1980. It shows that the use of waste paper relative to paper and paperboard production fluctuated in a rather narrow range during that period, from a low of 22.8% of total production in 1972 to a high of 24.1% in 1978. The decline in this ratio to 23.0% in 1980 can be traced largely to weakness in the production of gypsum wallboard facing (used in residential housing construction) and, to a lesser extent, panelboard (used in the manufacture of automobiles.) The table also highlights the growth of waste paper exports.

Table XXI shows data on the consumption of waste paper by major grade groups for the period 1977-1980. The table shows that the largest grade - used corrugated - also accounted for most of the growth in the total recovery of waste paper during this period.

Tables XXII and XXIII present data on wood pulp production and on consumption of all fibrous raw materials at paper and paperboard mills. About 10% of the wood pulp produced is sold on the open market, and could be considered as an output - particularly the dissolving and special alpha grades that are largely used outside the paper industry. The other 90% however, is an input to the manufacture of paper and paperboard. Table XXIII includes data on waste paper consumption at paper and board mills. These data exclude waste paper consumption at molded pulp mills which are included in the data shown in Table XX. Similarly, the pulpwood consumption data shown in this table are taken from reports of the American Pulpwood Association, and differ somewhat from the Census pulpwood consumption total shown on a regional basis in Table XVI.

Data on labor input and productivity are shown in Tables XXIV and XXV. Table XXIV include a new section that shows employment and earnings data at paper mills alone, In earlier reports, these data included building paper and board mills.

Table XXV is a new one that shows output per employee manhour and related data for the period 1947-1980. The 1947-1978 data are taken directly from the Bureau of Labor Statistics report. The 1979 and 1980 data are estimated by the American Paper Institute based upon API data.

Table XXVI presents data on employee costs in the paper and allied products industry, including supplements to wages and salaries, as presented in the Department of Commerce's Gross National Product Accounts.

Table XXVII presents data on capital expenditures in the paper and allied products industry. The first column shows capital expenditures by paper and allied products companies - that is, those companies whose major products are in the paper and allied products industry. The data refer to total company capital expenditures and include capital expenditures in subsidiary companies not in the paper industry. These figures are published quarterly by the Bureau of Economic Analysis and represent the most current data available on capital expenditures.

The other data in this table represent total capital expenditures at the mills and plants of the industry, regardless of company ownership. They include all mills and plants producing pulp, paper and paperboard and are the most precise measures of capital expenditures for the paper and allied products industry. The data are published at the four-digit SIC level in the Census and Surveys of Manufactures. The latest data are for 1978.

Table XVIII presents data on capital expenditures for environmental protection equipment. These data are reported by the National Council of the Paper Industry for Air and Stream Improvement, based on annual surveys.

The primary raw material of paper and paper production is the tree. Table XXIX presents data taken from the latest edition of the Forest Service Division of the U.S. Department of Agriculture's Forest Statistics of the United States. This report presents a detailed analysis of conditions in the commercial forests of the United States, together with analyses and forecasts of trends in the major markets for the forest products industry, the pulp and paper industry.

These reports have been made periodically for over 100 years and have contributed to public and private policies concerning forest management.

The table presented here shows that as of January 1, 1977,the forest industry companies owned 13.9% of the commercial forest land of the U.S. It also shows that as of that date there was considerable potential for increased commercial removals of both softwoods in every section of the U.S. except the Pacific Coast States and that all regions could expand their removal of hardwoods, before the rate removals plus mortality reached the rate of total growth.

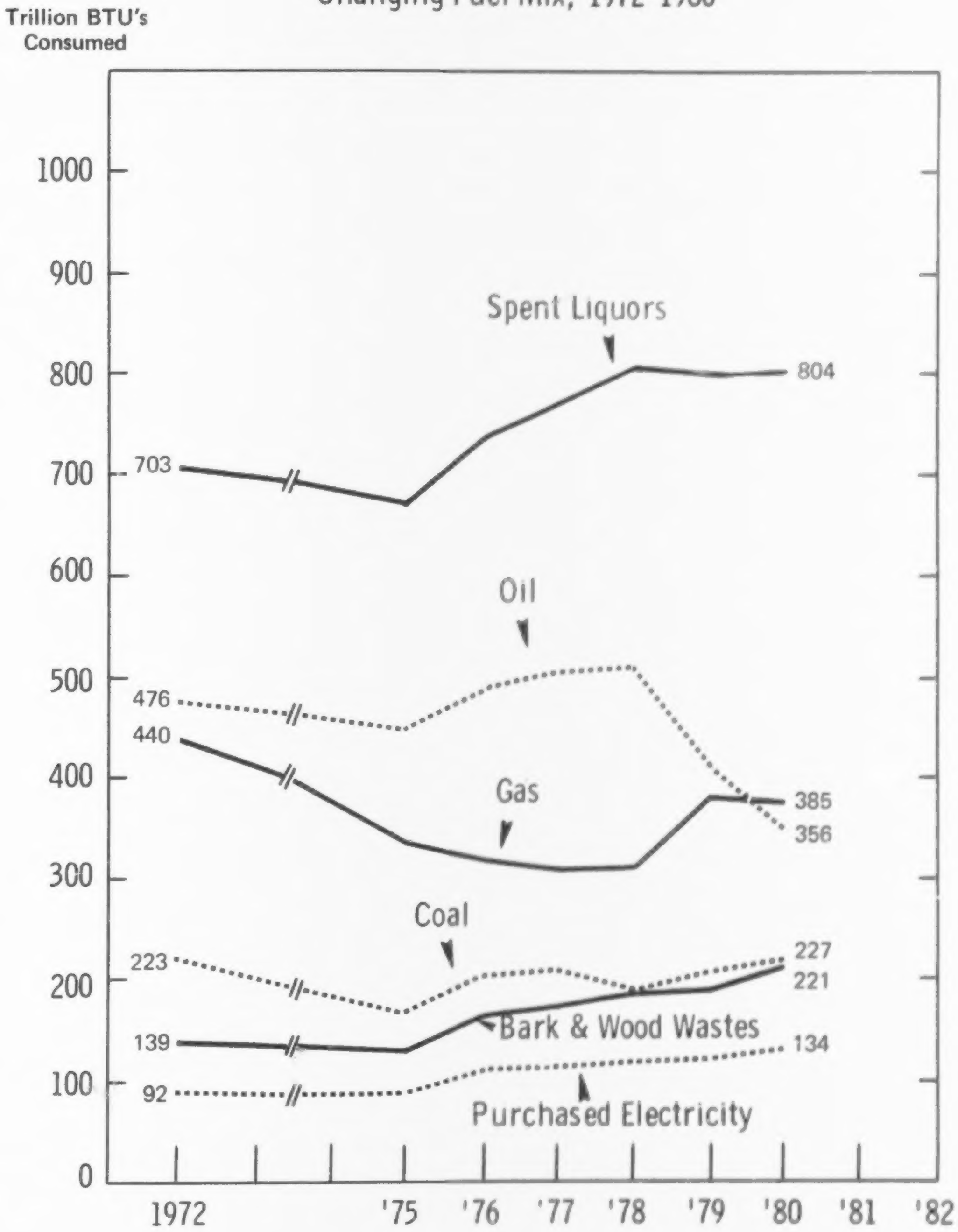
The Forest Service reports also presents numerical forecasts of demand for forest products, and highlights the potential values of utilizing modern forestry techniques of forest management.

These reports are updated regularly and often the new reports show significant changes from the previous ones. Interim studies now being made by the Forest Service indicate that some of the conclusions in the latest report may already be outdated.

CHART 2

PULP, PAPER & PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972-1980



ENERGY & MATERIALS DIVISION
AMERICAN PAPER INSTITUTE
260 Madison Avenue, New York, N.Y. 10016

TABLE XIX

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

		1972*R			1976*R			1977*R		
SOURCE	UNITS	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+
Purchased Electricity	MMKWH	26,944.8	91,610.4	4.3	31,936.8	108,585.2	5.2	34,212.5	116,312.3	5.4
Purchased Steam	MM lbs	18,763.8	21,888.1	1.0	14,968.6	17,682.5	0.9	16,512.3	19,471.6	0.9
Coal	M tons	8,987.4	223,235.9	10.6	8,519.2	208,855.9	10.0	8,806.9	215,496.4	10.1
Residual Fuel Oil	M 42 gal.BBL	72,081.6	453,387.2	21.5	75,699.3	475,143.4	22.8	77,442.0	486,483.2	22.7
Distillate Fuel Oil	M 42 gal.BBL	3,730.4	22,249.1	1.1	2,936.3	17,387.9	0.9	2,845.2	16,871.3	0.8
Liquid Propane Gas	M gal.	29,659.9	2,729.9	0.1	17,992.9	1,649.5	0.1	17,070.0	1,560.3	0.1
Natural Gas	MMCF	429,536.1	437,660.9	20.8	315,398.7	322,569.7	15.5	304,890.3	312,074.0	14.6
Other Purchased Energy			1,703.9	0.1		2,491.7	0.1		1,653.1	0.1
Energy Sold			(-13,377.4)			(-18,389.0)			(-21,899.5)	
Total Purchased Fossil Fuel and Energy			1,,241,088.0	59.5		1,135,976.8	55.5		1,148,022.7	54.7
Hogged Fuel (50% Moisture Content)	M tons	5,231.6	42,912.8	2.0	9,054.5	74,481.6	3.6	10,110.4	83,980.8	3.9
Bark (50% Moisture Content)	M tons	10,531.7	96,457.7	4.6	10,375.9	93,451.0	4.5	10,397.8	91,870.3	4.3
Spent Liquor (solids)	M tons	55,561.0	703,072.9	33.3	60,138.5	743,772.0	35.7	62,974.2	777,379.9	36.4
Self-Generated Hydroelectric Power	MMKWH	2,691.3	9,152.9	0.4	2,743.3	9,324.8	0.4	2,753.2	9,361.6	0.4
Other Self-Generated Energy			3,034.7	0.2		6,227.0	0.3		6,538.0	0.3
Total Self-Generated & Waste Fuels			854,631.0	40.5		927,256.4	44.5		969,130.6	45.3
Total Energy			2,095,719.0	100.0		2,063,233.2	100.0		2,117,153.3	100.0

* Based on a sample of 92.1% of total dried pulp, paper and paperboard production for 1980, 90.3% for 1979, 85.6% for 1978, 85.7% for 1977, 86.3% for 1976, and 88.4% for 1972.
+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
Negl. Negligible
R Revised

SOURCE: Raw Materials and Energy Division
American Paper Institute

TABLE XIX (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

SOURCE	UNITS	1978*R Estimated Use	1978*R Billion BTU'S	1978*R % of Total+	1979*R Estimated Use	1979*R Billion BTU'S	1979*R % of Total+	1980* Estimated Use	1980* Billion BTU'S	1980* % of Total+
Purchased Electricity	MMKWH	34,659.7	118,090.0	5.4	37,842.4	128,667.0	5.9	39,509.4	134,331.0	6.2
Purchased Steam	MM lbs.	15,508.9	18,303.4	0.8	14,244.9	16,477.7	0.7	12,770.2	14,779.9	0.7
Coal	M tons	8,122.1	197,828.0	9.1	8,894.0	219,255.0	10.0	9,207.7	227,012.4	10.5
Residual Fuel Oil	M 42 gal BBL	78,597.8	493,734.2	22.6	64,866.0	407,629.9	18.6	55,274.6	347,718.3	16.1
Distillate Fuel Oil	M 42 gal BBL	2,480.6	14,681.9	0.7	1,888.5	11,220.9	0.5	1,335.6	7,971.8	0.4
Liquid Propane Gas	M gal	12,862.1	1,190.1	Negl.	17,613.1	1,623.5	Negl.	29,571.8	2,725.7	0.1
Natural Gas	MMCF	307,340.7	315,046.0	14.4	375,979.6	385,979.2	17.6	373,330.5	382,503.2	17.7
Other Purchased Energy			2,015.2	0.1		5,823.7	0.3		5,303.6	0.2
Energy Sold			(-22,472.0)			(-21,134.5)			(-21,846.6)	
Total Purchased Fossil Fuel and Energy			1,138,417.7	53.1		1,155,542.4	53.6		1,100,499.3	51.9
Hogged Fuel (50% Moisture Content)	M tons	11,430.4	93,561.3	4.3	12,370.8	100,888.5	4.6	14,168.8	117,697.9	5.4
Bark (50% Moisture Content)	M tons	10,962.0	96,858.8	4.4	10,848.0	96,533.5	4.4	11,787.7	102,922.8	4.7
Spent Liquor (Solids)	M tons	65,798.7	816,035.3	37.4	64,956.8	802,635.0	36.6	65,007.3	804,256.5	37.2
Self-Generated Hydroelectric Power	MMKWH	2,650.8	9,012.1	0.4	2,733.8	9,294.5	0.4	2,444.6	8,310.9	0.4
Other Self-Generated Energy			8,633.4	0.4		8,698.8	0.4		8,546.7	0.4
Total Self-Generated & Waste Fuels			1,024,100.9	46.9		1,018,050.3	46.4		1,041,734.8	48.1
Total Energy			2,162,518.6	100.0		2,173,592.7	100.0		2,142,234.1	100.0

* Based on a sample of 92.1% of total dried pulp, paper and paperboard for 1980, 90.3% for 1979, 85.6% for 1978, 85.7% for 1977, 86.3% for 1976, and 88.4% for 1972.

+ Determined by using "Total Energy" + "Energy Sold" as a denominator.

Negl. Negligible

R Revised

SOURCE: Raw Materials and Energy Division
American Paper Institute

TABLE XX

UNITED STATES

WASTE PAPER UTILIZATION AND RECOVERY

1970 - 1980

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Waste Paper Consumption at Paper & Board Mills	Waste Paper Utilization Rate	Other Uses for Waste Paper	Exports	Imports	Total Waste Paper Recovered	Waste Paper Recovery Rate
1970	51,710	56,008	12,021	23.2%	200	408	(67)	12,562	22.4%
1971	53,203	57,492	12,323	23.2%	225	419	(68)	12,899	22.4%
1972	57,477	62,082	13,132	22.8%	240	415	(88)	13,699	22.1%
1973	59,936	65,039	14,318	23.9%	275	683	(87)	15,189	23.4%
1974	59,210	63,477	14,196	24.0%	275	1,307	(89)	15,689	24.7%
1975	51,126	54,261	11,983	23.4%	300	861	(72)	13,072	24.1%
1976	58,486	62,171	13,822	23.6%	430	1,273	(106)	15,419	24.8%
1977	60,207	64,408	14,288	23.7%	640	1,512	(92)	16,348	25.4%
1978	62,208	67,949	14,972	24.1%	290	1,599	(70)	16,791	24.7%
1979R	64,594	70,045	15,520	24.0%	350	2,233	(78)	18,025	25.7%
1980P	63,701	67,264	14,667	23.0%	380	2,664	(87)	17,624	26.2%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, but have been revised from earlier reports to exclude hard pressed board.

New Supply equals production plus imports less exports, revised from earlier report to exclude hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of waste paper consumption to total production of paper and board.

Recovery Rate is the ratio of waste paper collected to new supply of paper and paperboard.

Total Waste Paper Recovered is the sum of Waste Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XXI

UNITED STATES

WASTE PAPER RECOVERY

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper, Board and Molded Pulp Mills	Miscellaneous Uses and Insulation	Exports	Sub Total	Imports	Total
Used Corrugated						
1977	6,205	-	592	6,797	(30)	6,767
1978	6,721	-	577	7,298	(7)	7,291
1979	6,967	-	960	7,927	(11)	7,916
1980	6,939P	-	1,209	8,148	(13)	8,135
Old Newspapers						
1977	2,287	640	316	3,243	(42)	3,201
1978	2,212	290	366	2,868	(6)	2,862
1979	2,480	350	336	3,166	(4)	3,162
1980	2,375P	380P	425	3,180	(10)	3,170
Mixed Papers						
1977	2,773	-	341	3,114	-	3,114
1978	2,729	-	471	3,200	(52)	3,148
1979	2,648	-	648	3,296	(57)	3,239
1980	2,465P	-	649	3,114	(55)	3,059
Pulp Substitutes						
1977	2,079	-	263	2,342	(20)	2,322
1978	2,242	-	92	2,334	(2)	2,332
1979	2,308	-	154	2,462	(4)	2,458
1980	1,945P	-	205	2,150	(9)	2,141
High Grade Deinking						
1977	944	-	-	944	-	944
1978	1,068	-	93	1,161	(3)	1,158
1979	1,117	-	135	1,252	(2)	1,250
1980	943P	-	176	1,119	(*)	1,119
Total All Grades						
1977	14,288	640	1,512	16,440	(92)	16,348
1978	14,972	290	1,599	16,861	(70)	16,791
1979	15,520	350	2,233	18,103	(78)	18,085
1980	14,677P	380P	2,664	17,711	(87)	17,624

* Less than 500 tons

P = Preliminary

TABLE XXIIA

UNITED STATES PRODUCTION OF WOOD PULP

1969 - 1980

(000 Short Tons)

PRODUCTION

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	API DATA	
												1979	1980
WOOD PULP, TOTAL+	41,887	42,421	42,595	45,237	46,659	46,724	41,445	45,695	47,045	48,027	48,588	50,602	51,511
Special Alpha and Dissolving Grades	1,676	1,705	1,674	1,656	1,637	1,723	1,583	1,443	1,401	1,405	1,447	1,497	1,508
Bleached Sulphite	1,893	1,931	1,809	1,827	1,810	1,804	1,594	1,599	1,595	1,643	1,829	1,380	1,459
Unbleached Sulphite	391	413	354	345	374	405	357	435	405			395	385
Bleached Sulphate	10,679	11,348	11,685	12,460	13,055	13,705	12,448	13,696	14,307	15,218	15,585	18,051	18,994
Semi-Bl. Sulphate	1,721	1,906	1,557	1,574	1,826	1,672	1,396	1,298	1,253	1,198	1,178		
Unbleached Sulphate	16,209	16,217	16,309	17,792	18,165	17,635	15,517	17,879	18,534	19,127	18,793	19,589	19,591
Soda	241	218	208	184	188	200	*	*	*	*	*	*	*
Groundwood, Stone and Refiner	4,416	4,404	4,462	4,639	4,670	4,711	4,351	4,649	4,268	4,010	3,856	3,756	3,605
Groundwood, Thermo-mechanical	**	**	**	**	**	**	**	**	583	645	811	638	974
Semichemical	3,620	3,297	3,473	3,786	3,864	3,758	3,201	3,576	3,569	3,549	3,854	4,060	4,042
Defibrated or Exploded ***	910	850	940	850	950	980	890	1,010	1,120	1,122	1,140	1,140	858
Screenings, Damaged, etc.	130	130	125	122	122	131	108E	110E	110E	110E	95E	95	95

SOURCE: 1969 - 1979 - U.S. Bureau of the Census
1979 - 1980 - Pulp, Materials and Technology Group - API

* Soda pulp included with unbleached sulphate wood pulp
** Included with stone and refiner groundwood
*** Estimated to exclude wood pulp for hard pressed board
+ These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hard pressed board.
E - Estimated

TABLE XXIIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1969 - 1980

(000 Short Tons)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
MARKET WOOD PULP, TOTAL	4,855	5,446	4,634	5,025	4,925	5,139	4,358	4,864	4,803	5,122	5,678	6,465
Special Alpha and Dissolving Grades	1,699	1,714	1,680	1,674	1,494	1,611	1,232	1,370	1,462	1,403	1,497	1,506
Paper Grade Chemical Total	3,137	3,694	2,944	3,303	3,409	3,492	3,079	3,428	3,263	3,638	4,117	4,890
Bleached Sulphite	513	529	405	468	465	392	314	292	219	231	248	349
Unbleached Sulphite	59	60	11	13	21	5	8	24	13	19	28	32
Bleached and Semi-Bleached Sulphate	2,256	2,741	2,325	2,705	2,813	2,905	2,670	2,999	2,895	3,291	3,729	4,377
Unbleached Sulphate	309	364	203	117	110	190	87	113	136	97	112	132
Paper Grades - Other	19	38	10	48	22	36	47	66	78	81	63	69

SOURCE: Pulp, Materials and Technology Group - API

TABLE XXIII

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS

1969 - 1980

(000 Short Tons)

CONSUMPTION IN PAPER AND PAPERBOARD MILLS

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978R	1979R	1980E
WOOD PULP, TOTAL*	42,682	41,953	42,787	45,928	47,267	46,736	40,863	45,894	46,824	48,223	50,116	49,815
Special Alpha and Dissolving Grades	79	70	71	77	73	58	42	36	44	42	41	45
Bleached sulphite	2,243	2,195	2,135	2,161	2,009	2,136	1,768	1,985	1,884	1,587	1,728	1,445
Unbleached Sulphite	467	487	463	458	526	547	442	501	481	407	469	450
Bleached Sulphate	11,955	11,990	12,588	13,595	14,341	14,608	12,919	14,447	15,228	16,043	16,609	18,400
Semi-bleached sulphate	1,878	1,817	1,711	1,797	1,812	1,626	1,453	1,517	1,378	1,795	1,788	
Unbleached sulphate	16,508	16,403	16,495	17,971	18,437	17,825	15,430	17,527	18,149	18,694	19,378	19,500
Soda	282	257	235	213	221	231	166	121	121	118	127	
Groundwood	4,730	4,532	4,590	4,807	4,935	5,004	4,546	5,085	4,497	4,281	4,478	4,415
Thermomechanical	-	-	-	-	-	-	-	-	368	441	560	900
Semichemical	3,610	3,315	3,481	3,754	3,785	3,628	3,120	3,546	3,521	3,609	3,812	3,800
Defibrated or exploded E	776	751	886	962	993	916	849	993	1,019	1,075	1,022	760
Screenings, damaged, etc	155	137	133	135	137	157	125	135	134	131	104	100
OTHER FIBROUS MATERIALS, TOTAL	12,847	12,631	12,981	13,817	14,977	14,820	12,373	14,364	14,884	15,584	16,088	15,122
Waste Paper	11,969	11,803	12,106	12,925	14,094	13,982	11,748	13,622	14,058	14,760	15,361	14,520
All other, including straw, rags, etc.	878	828	875	892	883	838	625	742	826	854	727	602
PULPWOOD, TOTAL**	65,016	67,524	67,501	71,840	73,576	74,459	65,421	73,209	73,970	77,290	79,566	80,522
Softwood	48,904	51,335	50,932	53,751	54,868	54,634	48,932	55,789	55,509	57,096	58,654	58,860
Hardwood	16,112	16,189	16,568	18,089	18,708	19,825	16,489	18,420	18,461	20,194	20,912	21,662
Receipts of Residues	19,776	19,926	21,765	27,346	25,751R	29,949R	28,694	28,165	29,653	30,380	30,015	29,402

CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978R	1979R	1980E
TOTAL WOOD PULP	1,194	1,079	1,116	1,118	1,047	1,152	785	886	879	884	909	825
Alpha and dissolving grades	1,009	898	933	929	869	937	600	705	702	676	701	629
Other wood pulps	185	181	183	189	178	216	185	181	177	208	208	196

SOURCE: Consumption in paper and board mills of wood pulp - 1969-1979 - Bureau of the Census, Industry Division
1980 - American Paper Institute
Consumption of waste paper - 1969 - Institute of Paper Chemistry
1970-1980 - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division
Consumption of pulpwood - American Pulpwood Association
* Includes figures for Alaska, excludes wood pulp for hard pressed board.
** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.
P - Preliminary R - Revised E - Estimated by American Paper Institute
Note: Details may not add to totals due to rounding of figures to nearest thousand.
Waste paper consumption - Bureau of the Census data (000 tons)
1969 - 10,939; 1970 - 10,594; 1971 - 11,000; 1972 - 11,703; 1973 - 12,374; 1974 - 12,098;
1975 - 10,367; 1976 - 11,874; 1977 - 12,103; 1978 - 12,586; 1979 - 13,012; 1980 - 12,583

TABLE XXIV

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1964 - 1980

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees Total	 Production Workers
				(Thousands)	
PAPER AND ALLIED PRODUCTS - SIC 26					
1964	2.56	109.57	42.8	625.5	488.8
1965	2.65	114.22	43.1	639.1	497.7
1966	2.75	119.35	43.4	666.9	518.2
1967	2.87	122.84	42.8	679.1	526.3
1968	3.05	130.85	42.9	691.2	536.2
1969	3.24	139.32	43.0	711.1	550.6
1970	3.44	144.14	41.9	705.5	543.2
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.46	42.9	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.54	191.59	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	688.7	524.7
1979	7.13	303.74	42.6	706.8R	535.6R
1980	7.84	331.63	42.3	694.0	523.5
PAPER AND PULP* - SIC 261,262,266					
1964	2.77	121.88	44.0	213.1	169.9
1965	2.88	128.16	44.5	211.9	168.2
1966	3.02	135.30	44.8	215.1	169.9
1967	3.16	139.99	44.3	217.1	170.5
1968	3.35	149.08	44.5	217.7	170.2
1969	3.58	160.38	44.8	222.7	173.6
1970	3.80	166.06	43.7	218.8	168.6
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.47	44.5	206.5	160.6
1973	4.66	209.23	44.9	208.5	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.11	272.51	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9R	154.7R
1980	9.15	407.18	44.5	203.6	152.5
PAPER MILLS, EXCEPT BUILDING PAPER- SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980	9.09	408.14	44.9	175.4	130.0

* Includes Building Paper and Board Mills R - Revised

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers.

TABLE XXIV (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1964 - 1980

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees Total	 Production Workers
				-------(Thousands)--------	
PAPERBOARD - SIC 263					
1964	2.80	124.32	44.4	66.6	53.0
1965	2.93	132.14	45.1	68.1	54.1
1966	3.06	138.62	45.3	71.2	55.9
1967	3.19	142.59	44.7	72.1	56.4
1968	3.37	152.32	45.2	72.0	57.2
1969	3.61	163.53	45.3	71.1	56.4
1970	3.86	171.77	44.5	71.9	57.7
1971	4.14	184.23	44.5	68.5	53.8
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.3
1974	5.14	225.65	43.9	65.5	52.3
1975	5.73	244.10	42.6	60.8	47.9
1976	6.40	280.96	43.9	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5R	51.9R
1980	9.28	408.32	44.0	65.4	51.2
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1964	2.32	96.28	41.5	152.5	112.4
1965	2.39	99.42	41.6	159.6	116.8
1966	2.48	104.16	42.0	171.2	125.3
1967	2.60	107.38	41.3	175.5	128.8
1968	2.76	113.99	41.3	179.8	131.6
1969	2.93	121.30	41.4	187.6	136.4
1970	3.12	126.05	40.4	189.7	137.7
1971	3.33	135.20	40.6	188.9	136.9
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4R	163.7R
1980	6.90	280.14	40.6	219.7	162.7
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1964	2.40	100.56	41.9	193.3	153.5
1965	2.47	104.23	42.2	199.6	158.6
1966	2.56	109.06	42.6	209.3	167.1
1967	2.66	110.92	41.7	214.4	170.7
1968	2.82	117.88	41.8	221.7	177.2
1969	3.00	125.10	41.7	229.6	184.2
1970	3.18	128.79	40.5	225.0	179.2
1971	3.40	139.06	40.9	215.7	170.4
1972	3.64	151.06	41.5	219.9	173.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.17	168.47	40.4	219.3	172.2
1975	4.58	185.95	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980	6.94	285.93	41.2	205.3	157.1

TABLE XXV

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1980

YEAR	Output per Man-Hour			Man-Hours	
	Production Workers	All Employees	Output	Production Workers	All Employees
	-1977 = 100-				
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.7	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.3	102.4	98.7	99.1
1979 (API)	107.0	106.3	107.0	100.0	100.7
1980E (API)	109.3	107.9	106.9	97.7	99.1

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics, (API): Estimated by American Paper Institute
N.A. - Not Available

TABLE XXVI

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY

IN THE GROSS NATIONAL PRODUCT ACCOUNTS

1948 - 1980

YEAR	COMPENSATION OF EMPLOYEES			Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees	Number of Full Time & Part Time Employees	Average Annual Earnings per Full Time Equivalent Employee
	Total	Wages and Salaries	Supplements to Wages & Salaries*				
	(Millions of Dollars)				(000)	(000)	(Dollars)
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	958	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,333	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,453	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,193	10,182	2,011	1,908#	679	692	14,996
1978	13,474	11,216	2,258	1,978#	690	700	16,225
1979	14,878	12,340	2,538	2,191	695	705	17,535
1980E	15,985	13,210	2,775	N.A.	685	695	19,285

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6

* Total Less Wages and Salaries

E - Estimated by API

# Estimated data. Subject to revision.

TABLE XXVII

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS						
		Total SIC 26	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Converted Paper Products 264	Paperboard Containers & Boxes 265	Building Paper & Board Mills 266
1947	N.A.	407	86a			64	52	a
1948	383	N.A.						
1949	298	315	212a			52	51	a
1950	327	299	212a			51	36	a
1951	420	389	263a			61	65	a
1952	364	371	274a			61	36	a
1953	409	397	276a			74	47	a
1954	455	533	148a			182		a
1955	510	556	389a			167		a
1956	800	750	548a			106	96	a
1957	810	767	585a			182		a
1958	570	634	43	259	102	82	136	13
1959	650	686	92	215	117	79i	154	29b
1960	770	658	35	246	136	107i	109	25b
1961	620	685	49	285	108	99	113	31b
1962	620	742	34	277	126	122i	161	22b
1963	700	708	39	233	160	129	141	8
1964	910	902	67	296	214	153	160	12
1965	1,020	1,186	112	496	200	180	179	18
1966	1,320	1,422	113	575	255	212	249	18
1967	1,490	1,585	122	581	399	226	237	20
1968	1,220	1,238	77	487	185	231	242	17
1969	1,620	1,421	133	555	158	263	280	33
1970	1,740	1,397	122	503	239	289	227	18
1971	1,290	1,197	135	374	228	262	180	18
1972	1,460	1,335	136	372	314	289	206	19
1973	1,990	1,530	119	508	344	304	227	26
1974	2,890	2,214	136	723	637	315	342	63
1975	2,980	2,718	294	832	807	412	347	26
1976	3,110	3,010	375	1,044	844	394	335	12
1977	3,600	3,295	301	1,115	934	507	421	17
1978	3,990	3,736	195	1,424	1,000	604	496	19
1979	5,550	N.A.						
1980	6,800	N.A.						

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis
Paper and Allied Products Establishments, Bureau of the Census

NOTES: (a) Capital expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published.
(i) Imputed from available data.
N.A. - Not Available

TABLE XXVIII

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION

CAPITAL EXPENDITURES THROUGH 1980 AND PLANNED THROUGH 1981

(Million Dollars)

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
Through 1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
Through 1980	**2,674**	**2,175**	**202**	**5,051**	
Planned 1981	**87**	**152**	**59**	**298**	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement

TABLE XXIX

WOOD SUPPLY AND DEMAND

	Total	New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
				--Million Acres--				
Commercial Forest Land in U.S. January 1, 1977	487.8	31.0	48.2	50.0	41.6	188.4	70.8	57.8
Ownership by Forest Industry Companies	68.0	9.9	2.9	4.2	0.8	35.8	12.3	2.1
% of Industry	13.9%	31.9%	6.0%	8.4%	1.9%	19.0%	17.4%	3.6%
				--Million Cubic Feet--				
All Species								
Total Growth	21,874	1,352	1,832	1,691	1,051	10,826	3,431	1,690
Removals	14,425	639	663	790	637	6,571	4,279	846
Mortality	4,036	367	330	520	145	1,087	1,088	498
Removals and Mortality as Percent of Growth	84.4%	74.4%	54.2%	77.5%	74.4%	70.7%	156.5%	79.5%
Softwoods								
Total Growth	12,350	847	232	456	70	6,270	2,886	1,589
Removals	10,170	396	103	181	25	4,471	4,152	842
Mortality	2,311	139	56	158	7	485	1,007	459
Removals and Mortality as Percent of Growth	101.1%	63.2%	68.4%	74.3%	45.7%	79.0%	178.8%	81.9%
Hardwoods								
Total Growth	9,524	505	1,600	1,236	982	4,556	545	100
Removals	4,255	244	560	609	612	2,100	126	4
Mortality	1,724	228	274	362	138	603	81	39
Removals and Mortality as Percent of Growth	62.8%	93.5%	52.1%	78.6%	76.4%	59.3%	38.0%	43.0%

New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
Connecticut	Delaware	Michigan	Illinois	North Carolina	Alaska	Idaho
Maine	Maryland	Minnesota	Indiana	South Carolina	Oregon	Montana
Massachusetts	New Jersey	North Dakota	Iowa	Virginia	Washington	South Dakota (West)
New Hampshire	New York	South Dakota (East)	Kansas	Florida	California	Wyoming
Rhode Island	Pennsylvania	Wisconsin	Kentucky	Georgia	Hawaii	Arizona
Vermont	West Virginia		Missouri	Alabama		Colorado
			Nebraska	Mississippi		Nevada
			Ohio	Tennessee		Mexico
				Arkansas		Utah
				Louisiana		
				Oklahoma		
				Texas		

SOURCE: Forest Statistics of the U.S., 1977 - Review Draft - U.S. Department of Agriculture, Forest Service

SECTION IV
FINANCIAL DATA ON THE PAPER INDUSTRY

The financial data in this section are presented in Table XXX. They are drawn from the Federal Trade Commission's Quarterly Financial Report for Manufacturing, Mining and Trade Corporations. Prior to 1971, the FTC prepared this report jointly with the Securities and Exchange Commission.

The original data are drawn from reports by corporations whose primary sales are products classified in the paper and allied products industry. The figures refer to operations of the entire corporation. Many of the larger pulp and paper companies produce products outside this industry. In addition, a significant part of wood pulp, paper and paperboard capacity is owned by corporations whose major products are classified in other industry groups including, not only forest products, but also chemicals, metal containers, glass containers, and printing and publishing. Thus, the data reported for the paper and allied products industry include sales and income from other subsidiary operations and exclude the paper and allied products sold by corporations classified in other industries.

Corporate classifications can vary over time. The FTC continually reviews the status of the corporations and adjusts the classifications as required. In several instances, it published adjusted data for the previous four quarters when such changes were significant. The F.T.C. made such a major adjustment in the first quarter of 1981 by removing a company from this classification. As a result, the original 1980 sales total of $59.3 billion derived from the 1980 quarterly data reported in the fourth quarter 1980 report, was reduced to $54.7 billion in the report published for the first quarter of 1981. It appears that this change reverses one made in 1978, which revised the 1977 sales total from a preliminary $41.9 billion to a final $45.8 billion. However, while the removal or addition of large companies may have major impacts on the reported sales volume, it generally has a small impact on the ratios of after-tax profits to sales or to stockholders' equity. With these qualifications, the data shown in this table can be viewed both as a time series and as a yearly analysis of the financial patterns of the industry.

This table includes information on cash flow (depreciation plus profits after taxes) along with data on dividends, which permits calculation of internally generated funds available for investment. In addition, the FTC reports quarterly data on long-term debt (loans from banks due in more than one year plus long-term debt) which, taken together with data on net worth, permits calculation of total capital employed.

Previous issues of the Statistics of Paper and Paperboard have included several tables drawn from the Internal Revenue Service showing information similar to that presented here. Because of different definitions of such factors as depreciation and taxes for FTC purposes and for Internal Revenue purposes, the data in the two series tend to be somewhat inconsistent. In addition, the IRS data are published several years late. At the present time, IRS data are available only through 1977. The API will continue to maintain the files of the published IRS in the API library, but will not summarize and publish the IRS figures in future reports.

Table XXXI presents price indexes of paper and allied products as published by the Bureau of Labor Statistics for the period 1968-1980. The BLS conducts monthly surveys of producers of the product groups listed in the table and calculates averge prices and price changes. The price data are indexed to the bases shown in the table and combined into group indexes, with each product weighted according to its importance to the total.

Table XXXII presents data on operating characteristics at paper and allied product mills and plants as published in the Census and Surveys of Manufactures. The table shows data at the 4-digit SIC level. Data on the total primary sector may be computed by adding the data shown for industries 2611, 2621, 2631 and 2661. Note that the value added data includes the payroll total. The value of shipments is equal to the value added by manufacture plus cost of materials less the change in year-end inventories.

TABLE XXX

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1980

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreciation	Cash Inflow	Gross Cash Flow
1950	6,377	982	424	558	8.8	162	720	1,144
1951	8,022	1,417	858	559	6.9	183	742	1,600
1952	7,688	1,000	563	437	5.7	222	659	1,222
1953	8,371	1,005	554	450	5.4	242	692	1,246
1954	8,492	970	493	479	5.6	268	718	1,211
1955	9,847	1,206	601	604	6.1	310	914	1,515
1956	10,686	1,283	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	497	521	5.0	376	897	1,394
1958 1/	10,256	899	440	460	4.5	406	866	1,306
1958 2/	10,658	987	481	506	4.7	423	929	1,410
1959	11,824	1,204	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	546	587	5.0	480	1,067	1,613
1961	12,525	1.120	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	557	754	5.1	641	1,395	1,952
1965 1/	16,224	1,488	619	869	5.4	671	1,540	2,159
1965 2/	15,217	1,271	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	633	911	5.4	676	1,587	2,220
1967 2/	16,900	1,316	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	492	719	3.4	869	1,588	2,080
1971 1/	22,224	967	455	512	2.3	926	1,438	1,893
1971 2/	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - -	- - - - - - -N.A.-	- - - - - - - -	- - - - - - - - - -	- - -	
1972	23,324	1,584	643	941	4.0	959	1,900	2,543
1973 1/	26,503	2,481	1,040	1,441	5.4	1,012	2,453	3,493
1973 2/	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - -	- - - - - - -N.A.-	- - - - - - - -	- - - - - - - - - -	- - - - - -	- - - -
1974 1/	30,799	3,692	1,511	2,183	7.1	1,032	3,215	4,724
1974 2/	32,837	3,792	1,502	2,287	7.0	1,063	3,350	4,855
1975	32,044	2,901	1,099	1,801	5.6	1,219	3,020	4,120
1976	39,270	3,643	1,374	2,270	5.8	1,382	3,652	5,025
1977 1/	41,926	3,442	1,207	2,234	5.3	1,548	3,782	4,989
1977 2/	45,750	3,632	1,266	2,367	5.2	1,663	4,030	5,296
1978 1/	49,683	4,097	1,447	2,648	5.3	1,767	4,415	5,864
1978 2/	48,982	4,036	1,436	2,598	5.3	1,726	4,324	5,762
1979	55,359	5,406	1,683	3,723	6.7	1,896	5,619	7,302
1980 1/	59,333	4,318	1,275	3,042	5.1	2,075	5,117	6,392
1980 2/	54,737	4,014	1,233	2,781	5.1	1,990	4,771	6,004

SOURCE: Yearly data calculated by API based on Federal Trade Commission-Securities & Exchange Commission, Quarterly Financial Report for Manufacturing Corporations, 1950 - 1980. As of Fourth Quarter 1971, report prepared by Federal Trade Trade Commission alone.

1/ Data as from Source consistent with earlier reports.
2/ Revised series - change in corporations included in industry.
N.A. Not Available

Cash Inflow = Net Profit after Taxes + Depreciation
Gross Cash Flow = Net Profit before Taxes + Depreciation
Total Capital = Net Worth + Long Term Debt

TABLE XXX (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1980

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes to Net Worth (%)
1950	178	380	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	8,407	7,502	4,509	5,809	1,309	7,118	8.9
1958 1/	265	195	8,829	7,941	4,652	6,089	1,472	7,561	7.6
1958 2/	286	220	9,170	8,200	4,818	6,341	1,500	7.841	8.0
1959	290	329	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	12,560	12,380	6,585	8,304	1,967	10,271	9.1
1965 1/	409	461	13,850	13,378	7,321	8,672	2,439	11,111	10.0
1965 2/	350	403	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	14,621	14,662	8,131	8,710	3,104	11,814	10.5
1967 2/	391	405	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	19,679	18,160	9,969	10,305	4,822	15,127	7.0
1971 1/	418	94	20.424	19,001	10,194	10,652	5,239	15,891	4.8
1971 2/	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	19,810	18,816	9,903	10,615	4,973	15,588	8.9
1973 1/	416	1,025	21,377	19,998	10,616	11,536	5,073	15,609	12.5
1973 2/	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
1974 1/	519	1,668	23,696	19,093	11,524	12,958	5,346	18,304	16.8
1974 2/	530	1,754	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	32,010	27,284	15,659	17,203	7,625	24,828	13.2
1977 1/	725	1,502	34,450	29,545	17,131	18,321	8,551	26,872	12,2
1977 2/	793	1,566	37,047	31,866	18,590	19,704	9,254	28,958	12.0
1978 1/	877	1,771	40,810	34,420	20,226	21,181	10,082	31,263	12.5
1978 2/	859	1,739	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	45,304	37,069	22,349	23,206	11,028	34,234	16.0
1980 1/	1,089	1,957	50,040	41,403	25,739	25,889	11,850	37,739	11.8
1980 2/	1,050	1,716	44,866	39,534	24,391	23,873	10,365	34,238	11.6

See Page 62 for footnotes

TABLE XXXI

WHOLESALE PRICE INDEXES FOR SELECTED SUBGROUPS AND CLASSES OF WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

(Index 1967 = 100)

	1968	1969	1970	1971	1972	1973	1974
PULP, PAPER & ALLIED PRODUCTS	101.1	104.0	108.2	110.1	113.4	122.1	151.7
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	101.2	104.1	108.5	110.4	113.7	122.5	152.8
Wood Pulp Sub-Group	100.0	100.0	109.6	112.1	111.5	128.3	217.8
Sulphate, Unbleached	100.0	100.0	118.6	121.1	121.1	144.4	N.A.
Sulphate, Semi-Bleached	100.0	99.8	106.6	109.9	111.4	126.2	N.A.
Sulphate, Bleached	100.0	100.0	109.5	111.6	110.5	128.3	220.0
Sulphite, Bleached	100.0	100.0	109.9	113.2	113.2	129.5	227.0
Paper Making Wood Pulp		(Index Dec. 1973 = 100)		--	--	--	148.1
Bleached Sulphate Hardwood Pulp		(Index Dec. 1973 = 100)		--	--	--	147.2
Dissolving Wood Pulp		(Index Dec. 1973 = 100)		--	--	--	139.8
Dissolving Wood Pulp 92-94 alpha		(Index Dec. 1973 = 100)		--	--	--	144.2
Waste Paper Sub-Group	130.0	138.7	125.0	112.1	133.6	197.4	265.5
No. 1 News	137.1	122.9	108.1	103.1	119.2	137.2	201.6
No. 1 Mixed	152.6	168.2	130.3	122.8	155.2	230.8	330.8
Old Corrugated Boxes	128.5	140.4	135.5	111.5	131.6	223.3	251.4
Semichemical Kraft Clippings	125.6	149.1	145.7	127.2	153.8	223.7	288.8
Mixed Kraft Clippings	131.5	157.6	153.6	130.9	163.2	247.1	323.2
White News Blanks	91.9	89.9	84.3	82.5	85.8	124.4	212.0
Paper Sub-Group	102.0	105.5	111.0	114.2	116.3	121.4	148.6
Paper, except Newsprint	102.2	105.8	112.0	114.8	116.1	121.0	147.7
Book Paper, Uncoated Offset	102.4	106.2	112.0	116.3	118.5	120.9	153.7
Wood Bond, Unwatermarked	105.7	108.8	115.6	120.1	121.9	124.8	139.5
25% Cotton Fiber	103.5	106.6	112.1	115.4	116.7	122.2	147.8
Wrapping Paper	98.0	104.5	117.6	117.9	119.8	127.4	158.6
Butcher's Paper	103.0	107.5	111.2	113.2	112.4	121.1	151.7
Waxing Paper	100.6	100.8	102.6	103.4	104.4	112.1	160.5
Newsprint Class	101.1	104.4	107.6	112.2	116.7	122.2	151.2
Coated Printing Paper #3		(Index Dec. 1973 = 100)		--	--	--	110.1
Coated Printing Paper #5		(Index Dec. 1973 = 100)		--	--	--	119.6
Watermarked Bond #1		(Index Dec. 1973 = 100)		--	--	--	108.3
Form Bond, 12 lbs.		(Index Dec. 1973 = 100)		--	--	--	128.7
Uncoated Index Bristols		(Index Dec. 1973 = 100)		--	--	--	119.2
Shipping Sack, Unbleached Kraft		(Index Dec. 1973 = 100)		--	--	--	117.6
Standard Converting, Unbleached Kraft		(Index Dec. 1973 = 100)		--	--	--	116.1
Grocery Sack, Unbleached Kraft		(Index Dec. 1973 = 100)		--	--	--	118.3
Form Bond, 15 lb.		(Index Dec. 1975 = 100)		--	--	--	--
Paperboard Sub-Group	95.9	99.4	101.1	102.4	105.5	115.1	152.2
Containerboard Class	93.1	97.2	99.0	100.3	103.9	113.4	146.2
Linerboard, 42 lb. Kraft	94.4	97.5	99.2	100.3	103.4	111.4	143.8
Corrugating Medium, Semichemical	89.6	96.3	98.9	100.2	105.1	118.3	152.2
Folding Boxboard Class	100.2	102.5	103.2	104.6	106.5	115.7	158.2
Set-Up Boxboard Class	102.2	107.0	110.7	113.7	119.0	131.4	185.4
Chipboard 09140332	103.4	109.6	114.1	117.5	123.3	135.0	187.3
White Clay Coated, 80 Bright		(Index Dec. 1974 = 100)		--	--	--	--
Bleached Board Folding Carton		(Index Dec. 1974 = 100)		--	--	--	--
Uncoated Cup Stock		(Index Dec. 1974 = 100)		--	--	--	--
Tube, Can and Drum Stock		(Index Dec. 1974 = 100)		--	--	--	--
Converted Products Sub-Group	101.0	103.6	107.9	109.7	113.6	121.6	144.9
Sanitary Paper, etc.	104.2	109.1	115.1	119.6	121.0	124.8	155.7
Paper Bags, Shipping Sacks	94.4	98.4	106.9	100.1	107.6	119.4	138.6
Boxes, Shipping Containers	101.6	104.4	108.1	111.5	115.9	124.5	146.0
Gummed Sealing Tape	100.8	102.0	102.1	100.4	102.9	111.8	138.8
Games, Toys, Novelties	102.0	104.1	110.8	113.0	115.4	116.7	136.1
Office Supplies	100.3	98.7	101.4	101.9	103.2	109.9	136.1
Composite Cans	102.7	104.6	108.3	112.3	115.9	122.3	143.6
Building Paper and Board Sub-Group	100.9	105.5	101.0	102.8	106.4	112.8	123.5
All Commodities	102.5	106.5	110.4	114.0	119.1	134.7	160.1
Industrial Commodities	102.5	106.0	110.0	114.1	117.9	125.9	153.8

SOURCES: Bureau of Labor Statistics, Microfiche report containing complete series of producers price indexes through June 1981, U.S. Department of Labor, Washington, D.C.

NOTE: Annual figures are averages of monthly data.

N.A. - Not Available

TABLE XXXI (Cont.)

WHOLESALE PRICE INDEXES

FOR SELECTED SUBGROUPS AND CLASSES OF

WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

(Index 1967 = 100)

	1975	1976	1977	1978	1979	1980
PULP, PAPER & ALLIED PRODUCTS	170.4	179.4	186.4	195.6	219.0	249.2
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	171.9	180.8	187.3	195.6	220.2	250.6
Wood Pulp Sub-Group	283.4	286.0	281.1	266.5	314.3	380.3
Sulphate, Unbleached	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sulphate, Semi-Bleached	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sulphate, Bleached Softwood	281.2	282.8	277.0	257.1	308.4	378.6
Sulphite, Bleached	298.7	291.0	278.1	268.6	336.3	420.6
Paper Making Wood Pulp	193.4	192.5	186.8	174.5	263.5	263.5
Bleached Sulphate Hardwood Pulp	186.4	181.1	174.0	162.9	197.5	240.2
Dissolving Wood Pulp	180.2	189.9	193.8	191.5	197.9	229.9
Dissolving Wood Pulp 92-94 alpha	189.5	200.9	203.3	199.2	N.A.	N.A.
Waste Paper Sub-Group	110.2	184.9	187.2	191.2	206.6	208.7
No. 1 News	111.8	199.5	209.6	200.5	151.8	167.4
No. 1 Mixed	103.6	156.3	174.4	224.0	204.3	221.7
Old Corrugated Boxes	89.7	195.7	186.4	202.0	278.4	192.0
Semichemical Kraft Clippings	134.4	209.6	210.4	224.2	335.4	325.7
Mixed Kraft Clippings	138.3	231.0	232.2	248.7	384.4	371.4
White News Blanks	111.7	185.9	186.7	178.5	186.3	217.2
Paper Sub-Group	172.9	182.3	194.3	206.1	229.6	256.8
Paper, except Newsprint	169.3	177.1	187.2	199.4	222.8	249.3
Book Paper, Uncoated Offset	158.0	164.7	173.8	188.3	214.1	238.9
Wood Bond, Unwatermarked	148.5	151.1	156.6	164.7	182.1	203.5
25% Cotton Fiber	162.8	170.2	180.1	187.3	203.7	230.0
Wrapping Paper	200.8	208.4	213.3	225.6	243.6	264.3
Butcher's Paper	183.4	183.6	189.9	N.A.	N.A.	N.A.
Waxing Paper	191.9	199.3	205.0	210.3	N.A.	N.A.
Newsprint Class	184.0	198.2	215.5	226.3	250.2	279.3
Coated Printing Paper #3	118.4	128.5	139.1	153.9	167.2	178.6
Coated Printing Paper #5	136.3	144.9	162.3	179.5	194.5	217.7
Watermarked Bond #1	114.6	116.2	119.9	125.3	137.4	150.4
Form Bond, 12 lbs.	144.7	149.0	154.2	165.3	187.8	209.7
Uncoated Index Bristol	133.5	137.8	144.1	149.7	166.6	191.3
Shipping Sack, Unbleached Kraft	143.0	145.3	155.4	161.5	178.3	199.6
Standard Converting, Unbleached Kraft	140.7	141.5	145.4	151.5	167.0	191.3
Grocery Sack, Unbleached Kraft	150.7	152.0	151.2	158.2	179.6	210.6
Form Bond, 15 lb.	--	102.4	103.9	110.9	126.1	142.3
Paperboard Sub-Group	170.3	176.0	176.2	179.6	202.1	234.6
Containerboard Class	171.5	176.1	172.0	172.7	197.8	231.1
Linerboard, 42 lb. Kraft	171.0	174.4	170.6	171.5	196.4	231.0
Corrugating Medium, Semichemical	172.5	181.5	177.3	179.1	203.8	233.2
Folding Boxboard Class	162.8	167.4	174.8	185.2	199.4	229.2
Set-Up Boxboard Class	192.9	195.1	204.1	214.9	234.5	274.6
Chipboard 09140332	191.7	193.9	202.8	213.5	233.1	272.9
White Clay Coated, 80 Bright	100.0	103.7	108.8	117.6	124.8	141.6
Bleached Board Folding Carton	102.0	109.9	117.4	124.0	134.4	152.6
Uncoated Cup Stock	102.8	111.1	118.7	122.8	135.5	156.4
Tube, Can and Drum Stock	100.2	103.0	104.1	105.6	117.0	133.4
Converted Products Sub-Group	161.8	170.0	176.6	186.5	209.9	238.5
Sanitary Paper, etc.	194.7	214.4	236.7	253.8	279.9	325.0
Paper Bags, Shipping Sacks	155.7	163.5	171.5	190.9	220.4	246.4
Boxes, Shipping Containers	158.0	164.7	167.6	174.6	197.6	223.2
Gummed Sealing Tape	161.6	168.3	175.8	187.6	205.5	246.7
Games, Toys, Novelties	144.8	147.7	155.8	N.A.	N.A.	N.A.
Office Supplies	148.5	149.4	151.4	156.7	178.6	198.7
Composite Cans	167.3	179.0	194.3	209.6	226.4	253.3
Building Paper and Board Sub-Group	127.1	138.8	157.0	187.4	182.4	206.2
All Commodities	174.9	183.0	194.2	209.3	235.6	266.8
Industrial Commodities	171.5	182.4	195.1	209.4	236.5	274.8

TABLE XXXII

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1978

		All Employees		Production Workers							
CODE	INDUSTRY GROUP & INDUSTRY	Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	Value Added by Manufacture ($ Mil.)	Cost of Materials ($ Mil.)	Value of Industry Shipments ($ Mil.)	Capital Expenditures New ($ Mil.)	End-of-Year Inventories ($ Mil.)
26	**PAPER AND ALLIED PRODUCTS**	638.6	9,852.3	491.8	995.6	6,939.6	24,396.0	32,679.3	57,000.0	3,736.3	6,021.7
2611	**Pulp Mills**	15.1	306.3	11.7	24.3	226.2	855.5	1,268.0	2,152.4	194.6	253.9
2621	**Paper Mills, exc. Bldg. Paper**	125.9	2,336.8	98.7	207.0	1,740.1	6,061.7	7,494.2	13,603.9	1,423.9	1,283.2
2631	**Paperboard Mills**	67.4	1,291.0	52.5	112.4	975.4	3,253.5	4,445.7	7,743.3	999.8	509.6
264	**Misc.Converted Paper Products**	212.9	2,900.8	162.0	322.2	1,949.8	8,259.0	10,303.5	18,445.2	603.6	2,192.8
2641	Paper Coating and Glazing	41.3	615.7	28.4	57.9	378.6	1,633.6	2,128.4	3,746.2	91.0	520.4
2642	Envelopes	22.9	295.6	17.9	35.5	200.2	556.0	569.3	1,120.7	29.3	131.4
2643	Bags, except Textile Bags	49.5	639.1	39.5	80.3	444.5	1,561.2	2,382.8	3,925.7	135.1	452.5
2645	Die-Cut Paper and Board	15.1	194.8	11.8	23,1	129.6	477.8	716.4	1,188.6	26.4	118.3
2646	Pressed and Molded Pulp Goods	5.0	66.7	4.1	8.1	52.7	140.8	90.0	225.8	15.2	27.8
2647	Sanitary Paper Products	35.0	562.3	27.7	55.2	414.2	2,658.2	2,983.6	5,590.7	210.6	477.0
2648	Stationery Products	13.9	156.8	10.7	19.6	105.4	344.6	402.4	747.0	18.4	129.7
2649	Converted Paper Products, NEC	30.1	369.8	21.9	42.6	224.7	886.9	1,030.5	1,900.6	77.6	335.4
265	**Paperboard Containers and Boxes**	210.4	2,910.6	161.2	317.3	1,962.2	5,727.8	8,879.1	14,528.3	495.5	1,737.2
2651	Folding Paperboard Boxes	45.6	646.8	36.4	73.2	465.8	1,283.0	1,634.2	2,884.4	100.3	468.5
2652	Set-Up Paperboard Boxes	13.7	134.9	11.6	20.7	94.1	229.4	178.2	409.2	(s)	55.0
2653	Corrugated, Solid Fiber Boxes	105.8	1,550.7	77.1	152.7	993.9	2,951.2	5,107.8	8,030.3	282.5	702.1
2654	Sanitary Food Containers	28.9	360.5	22.4	43.6	244.6	824.1	1,275.9	2,085.7	71.5	375.0
2655	Fiber Cans,Drums,Similar Prod.	16.3	217.7	13.7	27.2	164.0	440.1	683.0	1,118.8	23.6	136.6
2661	**Building Paper and Board Mills**	6.9	106.8	5.8	12.4	85.8	238.4	288.8	526.9	18.9	45.0

1977

		All Employees		Production Workers							
CODE	INDUSTRY GROUP & INDUSTRY	Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	Value Added by Manufacture ($ Mil.)	Cost of Materials ($ Mil.)	Value of Industry Shipments ($ Mil.)	Capital Expenditures New ($ Mil.)	End-of-Year Inventories ($ Mil.)
26	**PAPER AND ALLIED PRODUCTS**	628.7	8,942.9	486.3	985.9	6,323.1	22,170.9	30,148.2	52,085.7	3,295.0	5,641.5
2611	**Pulp Mills**	16.2	293.2	12.5	25.4	220.7	906.1	1,212.0	2,091.1	301.1	257.0
2621	**Paper Mills, exc. Bldg. Paper**	127.0	2,167.0	100.4	210.4	1,631.7	5,406.6	7,221.6	12,613.3	1,115.2	1,259.5
2631	**Paperboard Mills**	67.6	1,175.8	53.0	112.5	888.0	3,080.7	4,049.8	7,124.3	933.7	537.5
264	**Misc.Converted Paper Products**	206.7	2,608.1	158.0	316.1	1,771.3	7,263.0	9,306.5	16,433.2	507.4	1,943.0
2641	Paper Coating and Glazing	39.7	551.2	27.2	56.8	335.1	1,507.0	1,908.3	3,392.0	98.7	451.2
2642	Envelopes	22.6	270.0	17.6	34.6	182.4	503.4	493.4	990.5	22.9	122.2
2643	Bags, except Textile Bags	48.7	584.1	38.8	77.6	411.7	1,349.6	2,140.5	3,482.3	93.4	424.9
2645	Die-Cut Paper and Board	14.3	174.6	11.3	22.7	119.6	429.5	640.9	1,057.7	15.3	114.3
2646	Pressed and Molded Pulp Goods	4.9	58.8	4.0	8.4	48.7	153.7	90.1	240.3	10.9	24.5
2647	Sanitary Paper Products	34.5	509.1	27.4	54.5	381.8	2,194.5	2,781.5	4,921.2	199.1	409.9
2648	Stationery Products	12.6	135.2	9.8	18.5	91.0	291.0	364.4	651.7	15.9	118.2
2649	Converted Paper Products, NEC	29.4	325.1	21.9	43.3	201.1	834.3	887.3	1,697.5	51.1	277.7
265	**Paperboard Containers and Boxes**	204.1	2,601.8	156.5	309.0	1,733.4	5,296.3	8,104.1	13,350.1	421.0	1,599.4
2651	Folding Paperboard Boxes	44.7	577.8	35.8	71.8	409.8	1,136.8	1,460.2	2,579.0	89.8	421.8
2652	Set-Up Paperboard Boxes	13.1	115.3	11.2	20.6	80.8	211.6	149.9	360.5	8.8	48.2
2653	Corrugated, Solid Fiber Boxes	101.5	1,374.8	73.5	146.5	867.0	2,704.1	4,660.7	7,351.1	243.3	664.8
2654	Sanitary Food Containers	28.7	336.7	22.7	43.5	228.2	836.8	1,226.6	2,048.4	52.4	345.5
2655	Fiber Cans,Drums,Similar Prod.	16.1	197.3	13.4	26.7	147.6	406.9	606.7	1,011.1	26.7	119.2
2661	**Building Paper and Board Mills**	7.0	96.9	5.9	12.5	77.9	218.2	254.3	473.7	16.6	45.0

SOURCE: 1978 Annual Survey of Manufactures, U.S. Department of Commerce, General Statistics for Industry Groups and Industries, Series MC77 (AS) - 1

(s) - Does not meet statistical standards.

SECTION V

SUPPLEMENT

Tables XXXIII and XXXIV present Census data on production, imports, exports and new supply of wet machine board and total construction paper and board.

These data are included in the production and new supply totals shown in Tables I and X. API does not collect data on these grades.

This section also includes the index to this report.

TABLE XXXIII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,167	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750

SOURCE: Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues

TABLE XXXIV

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,006	3,236,910
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,642	3,458,842
1980	2,420,112	473,679	57,662	2,836,129

SOURCE: Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues

NOTE: Excludes Hard Pressed Board

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STATISTICS OF PAPER PAPERBOARD & WOOD PULP 1982

DATA THROUGH 1981

AMERICAN PAPER INSTITUTE
260 MADISON AVENUE
NEW YORK 10016

BEST AVAILABLE COPY

FOREWORD

We are pleased to present the twentieth edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp.**

The Statistics of Paper, Paperboard and Wood Pulp is designed to present an up-to-date comprehensive statistical history of the paper and paperboard industry. In addition to the statistics on production, imports, exports, consumption, finances, prices, employment and wage rates, this report compares trends of new supply of paper and paperboard by major grades with trends in population and in total economic activity as measured by the real Gross National Product.

The current edition follows the format instituted in the 1981 report, combining the tables into functional groupings: (1) production and related data; (2) regional data; (3) data on inputs - fuels, fibrous raw materials, labor and capital, along with expenditures on research and development; (4) data on financial and price trends. The fifth section is a supplement presenting Census data on wet machine board and construction paper and board, together with the import and export data used to calculate paper and paperboard new supply. It also includes an index to this report.

Each section starts with a brief description and explanation of the tables contained in that section.

We welcome any comments or suggestions you may have concerning the usefulness of this report.

Norma Pace

Norma Pace
Senior Vice President

August 1982

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SECTION I

PRODUCTION AND RELATED OUTPUT DATA

Table I and Chart I present long-term trends in production, imports, exports and new supply (production plus imports minus exports) of total paper, paperboard, wet machine board, construction paper and insulating board, together with data on population and the gross national product expressed in 1972 dollars (real GNP) and the relationship between new supply, population and real GNP. The 1981 data show a recovery in production to a level second only to the high achieved in 1979. Chart I highlights the close relationship between new supply and real GNP; the bottom line of the Chart shows the ratio of new supply to real GNP for the period 1959 to 1981. (The Chart is plotted on ratio paper to permit direct comparison of the growth trends in the two series.)

Table IA and Chart IA have been introduced to show production, imports, exports and new supply of paper and paperboard, excluding wet machine board, construction paper and insulating board grades. The Department of Commerce discontinued publication of monthly data on paper and board production, which was the only source of monthly production data for wet machine board and construction paper and board grades. API's Monthly Statistical Summary, which present current summary data on most of the information presented in this report, now shows the production, import and export totals in terms of paper plus paperboard only. Note that production of paper plus paperboard in 1981 reached a new high, exceeding the 1979 total. The new supply total in 1981, however, was below the 1979 high.

Table II presents detailed data on the production of paper, including information on the major sub-groupings, which was recently revised. Tables III to IX show detailed data on the production of paperboard. The data are presented in terms of paperboard end-uses, such as containerboard and boxboard, and of paperboard products, such as, kraft paperboard and semichemical paperboard.

Table X presents an analysis of the growth in the new supply of paper and paperboard by major grade relative to real GNP. The data on imports used in the calculation of new supply are, with some exceptions, derived from Bureau of Census reports. Imports of uncoated groundwood paper used in this table are from the Canadian Pulp and Paper Association data on shipments of these grades to the United States. Census data on imports of uncoated book paper from Finland in some years have been shifted to uncoated groundwood paper based on analyses of these data by API's Printing/Writing Paper Division. The revised import and export data are shown in Table XXXV. Most of the data on paper exports are derived from Bureau of Census, but the source of paperboard exports is API data on production of these grades for export. The imports and exports data used to compute total paper and paperboard new supply, including products, are Census data.

Tables XI and XII show data on paper and paperboard capacity, total wood pulp capacity, and capacity to produce market pulp. The import and export data, as reported by the Bureau of Census, are shown on Tables XIII and XIV.

Table XV shows detailed data on the value of shipments of paper and paperboard at the Census Product Code five-digit level for the years 1976 through 1980 as reported by the Department of Commerce.

TABLE I

PAPER AND BOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1981

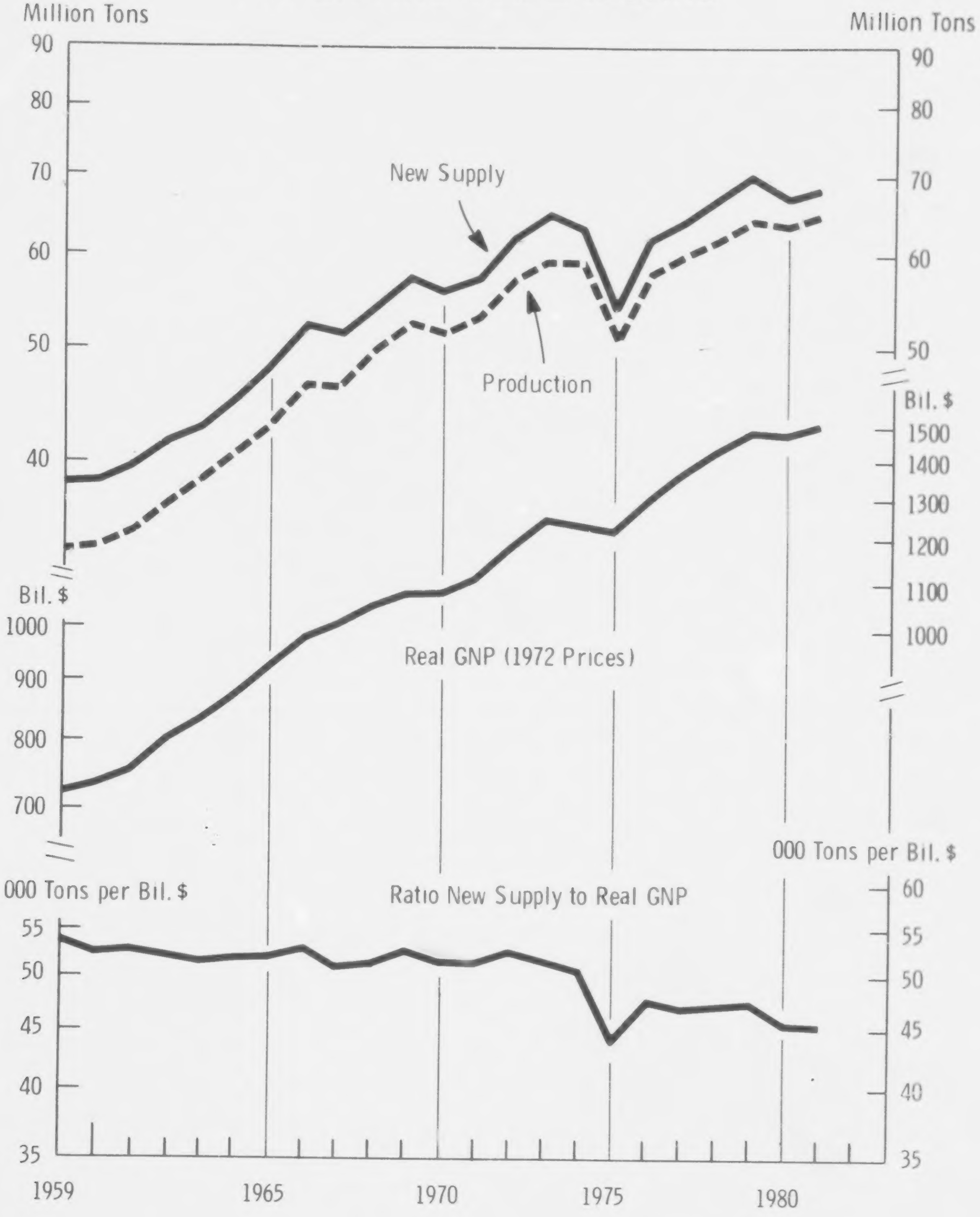
YEAR	Production	Imports	Exports	New Supply	Population	Per Capita New Supply	Real Gross National Product	Ratio New Supply to Real GNP
		(Inc. Products)						
	(Thousand Tons)				Millions	--lbs.--	$ Bil.1972 Prices	000 Tons/Bil.$
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.6	-	-
1929	11,140	2,534	262	13,411	121.8	220.3	315.7	42.5
1934	9,187	2,265	163	11,289	126.5	178.3	239.1	47.2
1939	13,510	1,687	249	15,949	131.0	243.5	319.8	49.9
1944	17,183	2,576	314	19,445	138.9	280.0	569.1	34.2
1947	20,800	4,121	460	24,461	144.7	338.1	470.3	52.0
1948	21,532	4,582	377	25,737	147.2	349.7	489.8	52.5
1949	20,098	4,752	367	24,483	149.8	326.9	492.2	49.7
1950	23,992	5,006	364	28,634	152.3	376.0	534.8	53.5
1951	25,699	5,143	631	30,211	154.9	390.1	579.4	52.1
1952	25,008	5,190	584	28,614	157.6	363.1	600.8	47.6
1953	26,182	5,229	471	30,940	160.2	386.3	623.6	49.6
1954	26,411	5,165	682	30,894	163.0	379.1	616.1	50.1
1955	29,649	5,346	839	34,156	165.9	411.7	657.5	51.9
1956	30,901	5,780	775	35,906	168.9	425.2	671.6	53.5
1957	30,097	5,410	863	34,644	172.0	402.8	683.8	50.7
1958	30,214	5,092	847	39,459	174.9	394.0	680.9	50.6
1959	33,748	5,517	906	38,358	177.8	431.5	721.7	53.2
1960	33,904	5,633	1,021	38,517	180.7	426.3	737.2	52.2
1961	35,178	5,678	1,210	39,646	183.7	431.6	756.6	52.4
1962	37,062	5,740	1,187	41,616	186.5	446.3	800.3	52.0
1963	38,647	5,669	1,333	42,981	189.2	454.3	832.5	51.6
1964	40,962	6,209	1,694	45,477	191.9	474.0	876.4	51.9
1965	43,455	6,585	1,770	48,270	194.3	496.9	929.3	51.9
1966	46,702	7,358	1,942	52,115	196.6	530.2	984.8	52.9
1967	46,568	6,952	2,085	51,432	198.7	517.7	1,011.4	50.9
1968	50,172	6,842	2,625	54,389	200.7	542.0	1,058.1	51.4
1969	52,956	7,258	2,749	57,463	202.7	567.0	1,087.6	52.8
1970	51,710	7,115	2,817	56,008	205.1	546.2	1,085.6	51.6
1971	53,203	7,406	3,118	57,492	207.7	553.6	1,122.4	51.2
1972	57,477	7,676	3,069	62,082	209.9	591.6	1,185.9	52.4
1973	59,936	8,131	3,027	65,039	211.9	613.9	1,254.3	51.9
1974	59,210	8,065	3,797	63,477	213.9	593.5	1,246.3	50.9
1975	51,126	6,253	3,116	54,261	216.0	502.4	1,231.6	44.1
1976	58,486	7,142	3,456	62,171	218.0	570.4	1,298.2	47.9
1977	60,207	7,432	3,230	64,408	220.2	585.0	1,369.7	47.0
1978	62,221	9,113	3,373	67,961	222.6	610.6	1,438.6	47.2
1979	64,546	9,123	3,672	69,997	225.1	621.9	1,479.4	47.3
1980	63,768	8,780	5,214	67,334	227.7	591.4	1,474.0	45.7
1981	64,375	8,339	4,641	68,073	229.8	592.5	1,502.6	45.3

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1981 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

NOTE: Production, Imports and Exports 1947-1981 exclude Hard Pressed Board
Population data includes Armed Forces overseas

Chart 1

PAPER AND PAPERBOARD



American Paper Institute
Economics Dept.
July, 1982

TABLE IA

PAPER PLUS PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1981

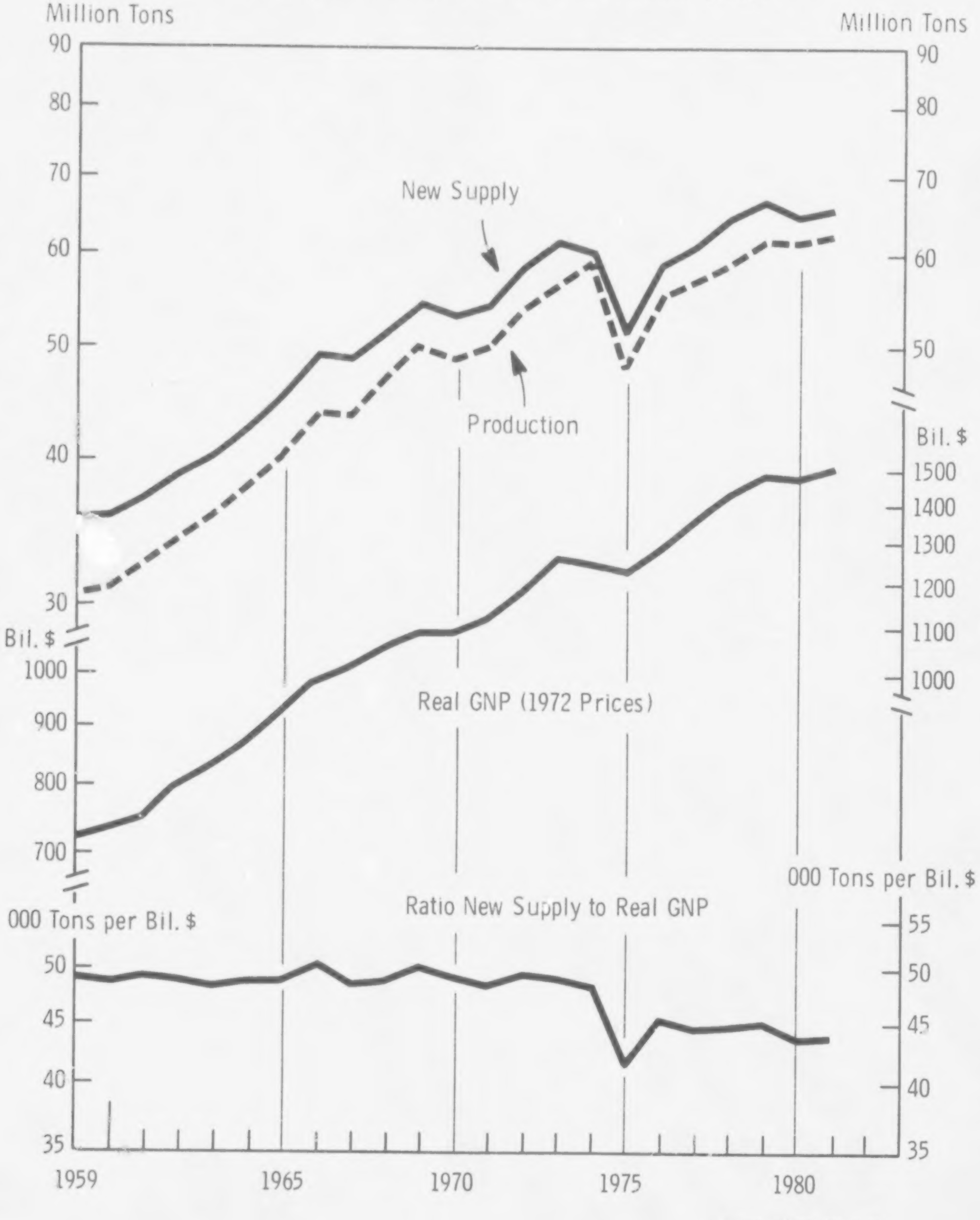
YEAR	Production	Imports	Exports	New Supply*	Ratio New Supply to Real GNP
	-Thousand Tons-				000 Tons/$ Bil.
1959	30,997	5,484	874	35,607	49.3
1960	31,221	5,611	990	35,842	48.6
1961	32,548	5,663	1,174	37,037	49.0
1962	34,407	5,719	1,154	38,972	48.7
1963	35,914	5,637	1,302	40,219	48.3
1964	38,066	6,154	1,660	42,560	48.6
1965	40,489	6,545	1,737	45,297	48.7
1966	43,904	7,327	1,904	49,327	50.1
1967	43,745	6,917	2,054	48,608	48.1
1968	47,110	6,793	2,587	51,316	48.5
1969	49,853	7,209	2,703	54,359	50.0
1970	48,758	7,057	2,779	53,036	48.9
1971	49,782	7,319	3,076	54,025	48.1
1972	53,885	7,567	3,020	58,432	49.3
1973	56,383	8,019	2,966	61,436	49.0
1974	55,926	7,970	3,720	60,176	48.3
1975	48,147	6,164	3,050	51,261	41.6
1976	55,151	7,042	3,388	58,805	45.3
1977	56,823	7,294	3,171	60,946	44.5
1978	58,744	8,781	3,301	64,224	44.6
1979	61,271	8,738	3,610	66,399	44.9
1980	61,210	8,304	5,148	64,366	43.7
1981	62,260	7,941	4,561	65,640	43.7

SOURCE: See Table I
NOTE: All data exclude wet machine board, building paper and insulating board.
* - New Supply = Production plus imports less exports.

Chart 1A

PAPER & PAPERBOARD

(Excluding Wet Machine Board & Construction Grades)



American Paper Institute
Economics Dept.
July, 1982

TABLE II

TOTAL PAPER SHIPMENTS

1959 - 1981

(Thousands of Tons)

	1959	1960	1961	1962	1963	1964
TOTAL PAPER, ALL GRADES	15,025.3	15,294.6	15,821.1	16,560.4	17,319.5	18,111.7
Newsprint Production	1,964.0	2,038.0	2,094.0	2,153.9	2,218.0	2,261.0
Total Printing-Writing Papers	6,907.4	7,120.6	7,369.9	7,803.7	8,183.5	8,667.9
Uncoated Groundwood	896.4	929.0	907.3	909.7	956.4	995.4
Publishing and Printing	731.0	746.8	746.2	755.0	806.7	837.2
Converting	165.4	182.2	161.1	154.7	149.7	158.2
Coated Papers	1,992.3	2,122.3	2,159.3	2,290.5	2,425.2	2,608.3
Uncoated Free Sheet Papers	3,095.8	3,112.5	3,270.1	3,458.3	3,634.1	3,847.5
Chemical Wood Pulp Writing Papers	1,205.5	1,166.2	1,279.6	1,401.5	1,452.2	1,538.3
Bond and Writing	429.2	371.8	407.0	457.3	470.0	499.2
Form Bond	245.0	260.0	300.0	345.0	375.0	420.0
Ledger	47.1	42.6	43.5	45.9	45.1	43.0
Mimeograph	102.5	102.1	110.0	113.3	110.9	116.5
Duplicating	92.3	93.6	106.0	111.5	116.0	117.3
Manifold	25.8	25.8	24.3	22.9	17.4	15.5
Papeterie and Wedding	50.1	49.9	44.7	49.3	42.9	45.2
Opaque Circular	27.8	30.1	28.8	26.5	27.3	20.6
Other	185.7	190.3	215.3	229.8	247.6	261.0
Cover and Text Papers	129.0	133.1	142.1	153.8	155.4	168.1
Other Uncoated Free Sheet	1,761.3	1,813.2	1,848.4	1,903.0	2,026.5	2,141.1
M.F., E.F. & Super Calendered	478.5	437.4	346.6	274.2	264.1	240.1
Offset	547.8	622.6	679.3	765.1	862.3	948.5
White Wove Envelope	261.6	267.3	280.0	310.6	318.8	357.3
Tablet	219.6	221.5	249.9	250.3	281.5	293.7
Kraft Envelope Papers: Total	154.3	157.7	164.1	175.3	175.2	172.0
Brown Kraft - Estimated	70.0	75.0	80.0	85.0	85.0	80.0
Bleached Kraft - Estimated	74.3	82.7	84.1	90.3	90.2	92.0
Other	99.5	106.7	128.5	127.5	124.6	129.5
Thin Papers	135.1	148.1	153.9	183.7	178.7	192.7
Cotton Fiber Papers	119.9	115.0	118.6	118.0	118.8	117.8
Bond and Writing	67.5	66.4	69.4	68.8	70.8	72.1
Other Business	32.1	29.9	30.4	30.5	29.7	28.0
Technical and Other	20.3	18.7	18.8	18.7	18.3	17.7
Bleached Bristols	667.9	693.7	760.7	843.5	870.3	906.2
Tabulating Index	279.3	298.2	342.9	393.7	395.5	419.4
Tag	144.1	143.1	149.5	154.6	164.7	171.5
File Folder	44.6	42.9	39.2	51.2	58.9	59.6
Index Bristol	98.3	92.4	94.2	97.6	98.0	97.4
Printing Bristol	20.1	19.9	21.7	22.3	22.3	22.4
Postcard	13.3	16.5	18.7	18.6	13.7	10.4
Coated Bristol	68.2	80.7	94.5	105.5	117.2	125.5
Total Packaging and Industrial Papers	4,026.0	3,934.6	4,045.0	4,188.6	4,341.6	4,436.1
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	3,731.0	3,651.4	3,733.0	3,880.6	4,027.2	4,091.7
Unbleached Kraft Papers	2,776.1	2,738.7	2,779.7	2,890.9	3,051.4	3,098.4
Wrapping	337.3	329.6	343.2	339.2	354.6	352.2
Bag and Sack (Exc. Shipping Sack)	1,102.0	1,127.2	1,135.1	1,231.0	1,270.2	1,326.2
Shipping Sack	813.6	786.7	795.9	797.8	880.7	865.9
Other Converting	523.2	495.2	505.5	522.9	545.9	554.1
Bleached Packaging Papers (Census)	779.0	735.5	769.1	799.0	782.0	797.4
Wrapping	228.7	215.0	196.3	204.3	191.4	191.7
Bag and Sack (Exc. Shipping Sack)	102.8	102.6	121.7	134.5	130.4	138.5
Shipping Sack	54.7	59.3	61.4	59.8	67.0	75.2
Other Converting 1/	392.8	358.6	389.7	400.4	393.2	392.0
Glassine, Grsprf. and Veg. Parch. (Census)	175.9	177.2	184.2	190.7	193.8	195.9
Special Industrial Papers	295.0	283.2	312.0	308.0	314.4	344.4
Total Tissue Papers (Census)	2,127.9	2,201.4	2,312.2	2,414.2	2,576.4	2,746.7
Total Sanitary Tissue Stock	1,881.7	1,963.6	2,078.0	2,178.9	2,340.4	2,515.7
Toilet Tissue	878.4	878.0	936.1	985.4	1,054.6	1,107.2
Single Ply	608.3	584.5	632.4	649.3	666.5	657.8
Multi-Ply	270.1	293.5	303.8	336.1	388.1	449.5
Facial Tissue Stock	233.7	254.2	262.0	261.8	278.4	327.4
Napkin Stock	228.6	238.1	246.6	249.5	261.3	266.1
Single Ply	174.4	179.7	186.0	184.6	194.6	202.3
Multi-Ply	54.2	58.4	60.6	64.8	66.7	63.8
Towelling*	469.1	516.2	558.9	604.5	662.9	723.1
Wiper Stock*	21.7	25.7	26.5	31.9	33.1	38.4
Other Sanitary Tissue*	50.2	51.3	47.7	45.8	50.0	53.5
Total All Other Tissue	246.2	237.8	234.3	235.3	236.0	231.0
Waxing Tissue Stock	107.4	104.1	105.2	96.3	93.1	81.5
Wrapping Tissue Stock	49.0	46.2	45.4	51.8	50.3	58.9
Industrial Cellulose Wadding	35.0	33.2	29.8	28.0	29.2	31.1
Miscellaneous Tissue	54.8	54.4	53.9	59.3	63.3	59.6

1/ Excludes Bleached Kraft Envelope Paper   * Revised slightly by API

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS
1959 - 1981
(Thousands of Tons)

	1965	1966	1967	1968	1969	1970
TOTAL PAPER, ALL GRADES	19,157.0	20,724.9	20,925.6	22,205.6	23,476.7	23,374.9
Newsprint Production	2,245.0	2,483.0	2,709.0	3,045.0	3,362.0	3,464.0
Total Printing-Writing Papers	9,337.5	10,318.4	10,121.9	10,535.8	11,199.1	10,961.7
Uncoated Groundwood	974.0	1,088.3	1,019.6	1,090.3	1,094.9	1,084.6
Publishing and Printing	814.0	876.4	806.4	883.3	914.0	924.4
Converting	160.0	211.9	213.2	207.0	180.9	160.2
Coated Papers	2,814.2	3,087.6	3,086.4	3,138.4	3,348.5	3,278.6
Uncoated Free Sheet Papers	4,216.0	4,691.9	4,577.0	4,817.7	5,214.9	5,124.4
Chemical Wood Pulp Writing Papers	1,725.9	1,931.2	1,964.2	2,061.7	2,307.0	2,288.9
Bond and Writing	555.9	620.8	613.9	627.1	718.0	698.6
Form Bond	490.0	575.0	600.0	645.0	778.1	722.1
Ledger	46.6	49.1	47.5	54.6	51.1	48.2
Mimeograph	117.3	125.4	122.7	115.1	113.1	126.4
Duplicating	125.6	134.9	141.9	160.9	172.5	165.6
Manifold	19.9	20.2	17.2	14.0	11.0	9.8
Papeterie and Wedding	45.5	51.7	51.7	56.0	59.9	53.9
Opaque Circular	22.9	23.8	24.6	23.3	25.0	23.6
Other	302.2	330.3	344.7	365.7	378.3	440.7
Cover and Text Papers	186.0	194.1	192.2	192.8	200.1	193.2
Other Uncoated Free Sheet	2,306.1	2,566.6	2,420.6	2,536.2	2,707.8	2,642.3
M.F., E.F. & Super Calendered	219.3	228.2	209.9	198.2	214.3	162.1
Offset	1,062.4	1,221.9	1,165.3	1,272.1	1,356.5	1,360.4
White Wove Envelope	392.4	412.8	423.0	459.6	461.2	466.1
Tablet	304.4	346.3	294.6	313.0	320.9	342.4
Kraft Envelope Papers: Total	194.0	203.7	188.5	186.6	208.8	189.6
Brown Kraft	67.0E	68.1E	92.9E	92.1E	102.9	95.7
Bleached Kraft	127.0E	135.6E	95.6E	94.5E	105.9	93.9
Other	131.6	153.7	139.3	133.7	146.1	121.7
Thin Papers	211.3	245.4	238.0	261.6	289.0	287.9
Cotton Fiber Papers	122.3	126.3	124.8	124.0	128.1	115.4
Bond and Writing	74.8	78.7	74.8	80.5	85.3	76.5
Other Business	29.0	28.8	30.1	25.2	24.7	23.4
Technical and Other	18.5	18.8	19.9	18.3	18.1	15.5
Bleached Bristols	999.7	1,078.9	1,076.1	1,103.8	1,123.7	1,070.8
Tabulating Index	478.6	514.4	533.2	534.6	558.7	499.6
Tag	194.9	196.9	187.4	203.7	193.5	184.3
File Folder	64.0	71.4	71.0	77.8	76.5	72.0
Index Bristol	100.6	115.0	105.5	104.4	100.4	102.3
Printing Bristol	23.4	26.5	24.6	24.0	28.4	32.0
Postcard	8.8	10.3	8.5	5.2	6.8	6.7
Coated Bristol	129.4	144.4	145.9	154.1	159.4	173.9
Total Packaging and Industrial Papers	4,683.9	4,823.7	4,865.8	5,168.9	5,304.8	5,230.8
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	4,319.1	4,430.1	4,479.3	4,753.1	4,861.8	4,809.7
Unbleached Kraft Papers	3,293.1	3,414.4	3,391.9	3,602.5	3,670.2	3,672.4
Wrapping	358.9	370.0	334.7	353.5	327.7	296.4
Bag and Sack (Exc. Shipping Sack)	1,447.7	1,548.1	1,631.3	1,713.0	1,797.9	1,927.4
Shipping Sack	894.9	884.7	902.5	978.8	983.5	953.3
Other Converting	591.6	611.6	523.4	557.2	561.1	495.3
Bleached Packaging Papers (Census)	825.4	801.1	891.3	942.9	975.2	934.0
Wrapping	207.4	208.4	217.7	210.5	229.3	219.6
Bag and Sack (Exc. Shipping Sack)	163.1	171.6	185.5	207.8	227.3	218.6
Shipping Sack	72.0	73.7	89.1	88.7	99.8	97.9
Other Converting 1/	382.9	347.4	398.9	435.8	418.7	397.9
Glassine, Grspf. and Veg. Parch. (Census)	200.6	214.6	196.1	207.7	216.4	203.3
Special Industrial Papers	364.8	393.6	386.5	415.8	443.0	421.1
Total Tissue Papers	2,890.6	3,099.8	3,228.9	3,455.9	3,610.8	3,718.4
Total Sanitary Tissue Stock	2,651.4	2,847.5	2,976.7	3,217.2	3,368.6	3,494.0
Toilet Tissue	1,120.9	1,169.9	1,171.0	1,273.1	1,274.7	1,323.1
Single Ply	663.8	700.2	675.8	733.9	721.7	775.5
Multi-Ply	457.1	469.7	495.2	539.3	553.0	547.6
Facial Tissue Stock	327.2	337.5	349.1	349.8	386.4	365.0
Napkin Stock	287.3	332.8	347.3	374.7	377.8	381.2
Single Ply	215.2	253.0	262.0	292.3	293.7	304.3
Multi-Ply	72.1	79.7	85.3	82.4	84.1	76.9
Towelling	816.4	897.7	987.8	1,077.7	1,136.9	1,168.1
Wiper Stock	40.1	49.1	48.9	50.3	58.8	55.8
Other Sanitary Tissue	59.5	60.5	72.8	91.5	134.1	200.8
Total All Other Tissue	239.2	252.3	252.1	238.7	242.2	224.5
Waxing Tissue Stock	85.8	81.0	78.0	71.0	66.0	57.8
Wrapping Tissue Stock	60.8	57.6	55.3	53.2	43.4	45.8
Industrial Cellulose Wadding	31.3	43.1	45.3	53.3	52.9	43.2
Miscellaneous Tissue	61.3	70.5	73.6	61.2	79.9	77.7

E - Estimated 1/ Excludes Bleached Kraft Envelope Paper
NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS
1959-1981
(Thousands of Tons)

	1971	1972	1973	1974	1975	1976
TOTAL PAPER, ALL GRADES	23,744.9	25,383.1	26,810.9	27,010.8	23,391.0	26,710.7
Newsprint Production	3,476.0	3,656.0	3,738.0	3,561.0#	3,691.0	3,735.9
Total Printing-Writing Papers	11,190.9	12,256.8	13,424.9	13,484.5	11,011.7	13,250.6
Uncoated Groundwood	1,089.2	1,126.0	1,180.9	1,192.4	1,127.2	1,320.6
Publishing and Printing	929.0	950.9	985.1	1,001.8	947.5	1,066.5
Converting	160.2	175.1	195.8	190.6	179.7	254.1
Coated Papers	3,232.7	3,526.8	3,825.0	3,821.7	3,194.0	3,980.8
Uncoated Free Sheet Papers	5,386.9	5,991.2	6,703.9	6,783.8	5,355.1	6,472.2
Chemical Wood Pulp Writing Papers	2,435.2	2,753.2	3,287.0	3,594.9	2,762.2	3,353.3
Bond and Writing	761.5	889.6	1,068.7	1,325.1	1,012.0	1,265.5
Form Bond	787.1	913.0	1,119.3	1,160.8	949.6	1,163.2
Ledger	51.5	53.9	61.8	70.8	51.0	57.4
Mimeograph	125.5	128.2	143.3	128.8	96.2	100.8
Duplicating	162.9'	171.4	182.4	170.4	123.6	136.0
Manifold	10.7	11.8	12.7	11.2	9.0	12.0
Papeterie and Wedding	51.9	51.1	57.3	47.3	34.2	47.5
Opaque Circular	24.5	26.2	33.6	38.1	26.6	32.8
Other	459.6	508.0	607.9	633.9	460.0	538.1
Cover and Text Papers	181.0	194.4	219.5	213.1	156.2	175.3
Other Uncoated Free Sheet	2,770.7	3,043.6	3,197.4	2,975.8	2,436.7	2,943.7
M.F., E.F. & Super Calendered	147.6	128.6	154.6	128.1	66.5	69.3
Offset	1,443.4	1,661.8	1,826.8	1,799.1	1,434.1	1,744.1
White Wove Envelope	467.6	527.0	570.9	530.6	456.6	519.9
Tablet	401.3	396.5	305.5	167.5	229.3	299.6
Kraft Envelope Papers: Total	176.9	189.5	214.0	203.1	163.8	204.0
Brown Kraft	93.7	93.2	106.7	98.3	83.4	101.4
Bleached Kraft	83.2	96.3	107.3	104.8	80.4	102.6
Other	133.9	140.2	125.6	148.4	86.4	106.7
Thin Papers	292.3	333.2	358.2	371.8	310.8	348.4
Cotton Fiber Papers	112.8	119.1	123.7	117.0	94.5	104.2
Bond and Writing	75.7	81.1	85.5	82.2	67.6	75.8
Other Business	21.1	22.2	22.8	20.8	16.3	15.8
Technical and Other	16.0	15.8	15.4	14.0	10.6	12.6
Bleached Bristols	1,077.0	1,160.5	1,233.2	1,197.8	930.1	1,024.4
Tabulating Index	458.3	465.0	491.7	498.6	372.7	334.3
Tag	193.5	217.1	220.3	140.1	132.3	177.6
File Folder	80.9	88.3	87.1	66.9	86.0	92.0
Index Bristol	106.1	120.9	130.9	181.0	119.0	140.8
Printing Bristol	32.9	39.2	46.9	57.5	37.9	43.0
Postcard	6.7	5.7	3.1	0.2	1.3	1.4
Coated Bristol	198.6	224.3	253.7	258.5	180.9	235.3
Total Packaging and Industrial Papers	5,245.4	5,493.7	5,609.2	5,878.9	4,708.9	5,540.6
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	4,807.1	4,986.9	4,999.1	5,280.9	4,268.7	4,967.0
Unbleached Kraft Papers	3,649.2	3,810.9	3,901.6	4,181.8	3,384.0	3,931.1
Wrapping	280.3	282.5	272.3	196.1	150.8	164.7
Bag and Sack (Exc. Shipping Sack)	1,929.3	2,014.5	2,006.2	2,148.5	1,939.0	2,119.2
Shipping Sack	930.4	935.7	1,025.8	1,150.1	811.0	977.4
Other Converting	509.2	578.2	597.3	687.1	483.2	669.8
Bleached Packaging Papers (Census)	952.1	942.0	867.0	858.6	693.5	828.7
Wrapping	205.7	204.4	158.1	143.1	115.3	126.4
Bag and Sack (Exc. Shipping Sack)	234.7	240.8	254.2	245.2	227.8	273.9
Shipping Sack	101.9	105.1	104.3	130.2	95.3	127.6
Other Converting 1/	409.8	391.7	350.4	340.1	255.1	300.8
Glassine, Grsprf. and Veg. Parch. (Census)	205.8	234.0	230.5	240.5	191.2	207.2
Special Industrial Papers	438.3	506.8	610.1	598.0	440.4	573.6
Total Tissue Papers (Census)	3,832.6	3,976.6	4,038.8	4,086.4	3,979.4	4,183.6
Total Sanitary Tissue Stock	3,604.3	3,746.2	3,771.8	3,823.2	3,771.9	3,954.6
Toilet Tissue	1,376.2	1,398.7	1,440.5	1,466.1	1,520.1	1,608.9
Single Ply	812.8	839.9	870.3	881.8	907.5	935.1
Multi-Ply	563.4	558.7	570.2	584.3	612.6	673.9
Facial Tissue Stock	341.1	367.2	361.8	356.9	339.8	335.1
Napkin Stock	394.7	419.3	447.7	442.5	462.1	455.2
Single Ply	319.5	343.3	357.8	369.7	387.6	382.6
Multi-Ply	75.2	76.0	89.8	72.8	74.5	72.5
Towelling	1,183.7	1,249.4	1,276.4	1,333.2	1,248.5	1,323.2
Wiper Stock	54.9	59.4	61.3	45.3	37.0	46.4
Other Sanitary Tissue	253.8	252.2	184.1	179.2	164.6	185.9
Total All Other Tissue	228.3	230.5	267.0	263.2	207.5	228.9
Waxing Tissue Stock	58.3	58.4	52.9	49.8	43.6	43.0
Wrapping Tissue Stock	48.4	51.5	62.2	60.1	44.4	55.2
Industrial Cellulose Wadding	40.3	34.2	36.4	33.2	*	*
Miscellaneous Tissue	81.3	86.4	115.5	120.1	119.5	130.7

NOTE (Census): Current Industrial Report, Pulp, Paper and Board R - Revised
1/ Excludes Bleached Kraft Envelope Paper # Basis weight change from 32 lb. to 30 lb. * Included in Miscellaneous Tissue

TABLE II (Cont.)
TOTAL PAPER SHIPMENTS
1959 - 1981
(Thousands of Tons)

	1977	1978R	1979R	1980R	1981P
TOTAL PAPER, ALL GRADES	**27,869.8**	**28,469.5**	**29,842.2**	**30,258.3**	**31,028.0**
Newsprint Production	**3,870.5**	**3,767.5**	**4,061.9**	**4,672.3**	**5,238.6**
Total Printing-Writing Papers	**13,896.5**	**14,607.6**	**15,354.4**	**15,576.8**	**15,735.6**
Uncoated Groundwood	**1,359.7**	**1,354.4**	**1,509.0**	**1,498.0**	1,462.9
Publishing and Printing	1,082.4	1,061.0	1,186.0	1,177.9	1,110.3
Converting	277.3	293.4	323.0	320.1	352.6
Coated Papers	**4,261.4**	**4,453.3**	**4,526.6**	**4,672.6**	**4,940.1**
Uncoated Free Sheet Papers	**6,776.6**	**7,231.3**	**7,844.6**	**8,015.7**	**7,898.1**
Chemical Wood Pulp Writing Papers	**3,512.1**	**3,782.4**	**4,072.8**	**4,312.5**	**4,263.8**
Bond and Writing	1,344.3	1,415.2	1,566.3	1,775.3	1,674.5
Form Bond	1,212.5	1,339.6	1,463.3	1,509.3	1,597.5
Ledger	59.6	57.4	57.6	50.8	49.3
Mimeograph	92.3	91.9	85.6	90.9	75.5
Duplicating	147.0	149.5	153.3	173.6	147.6
Manifold	9.2	12.1	10.8	8.9	4.0
Papeterie and Wedding	43.6	49.2	56.4	46.2	45.6
Opaque Circular	32.7	39.6	45.5	37.0	37.0
Carbonless	N.A.	N.A.	N.A.	315.4	342.4
Other	570.9	627.9	634.0	305.1	290.4
Cover and Text Papers	189.1	212.1	243.1	238.2	243.0
Other Uncoated Free Sheet	3,075.4	3,236.8	3,528.7	3,465.0	3,391.3
M.F., E.F. & Super Calendered	66.1	69.5	85.9	78.7	77.3
Offset	1,853.7	1,877.4	2,101.7	2,036.6	1,993.5
White Wove Envelope	554.4	592.3	638.8	650.9	641.3
Tablet	285.4	350.4	320.1	326.6	321.9
Kraft Envelope Papers: Total	203.3	230.2	234.4	226.2	221.5
Brown Kraft	101.1	121.1	115.6	111.7	111.0
Bleached Kraft	102.2	109.1	118.8	114.5	110.5
Other	112.5	117.0	147.8	146.0	135.8
Thin Papers	**338.7**	**351.7**	**371.4**	**333.0**	**336.2**
Cotton Fiber Papers	**108.5**	**114.4**	**124.6**	**125.8**	**124.6**
Bond and Writing	80.2	84.4	93.1	94.6	94.0
Other Business	15.6	16.3	16.6	14.3	14.2
Technical and Other	12.7	13.7	14.9	16.9	16.4
Bleached Bristols	**1,051.6**	**1,102.5**	**978.2**	**931.7**	**973.7**
Tabulating Index	338.0	310.6	217.0	202.3	166.2
Tag	177.1	207.7	208.7	177.7	194.3
File Folder	99.3	112.3	127.6	114.0	127.0
Index Bristol	135.6	143.4	137.9	147.0	143.4
Printing Bristol	46.4	51.3	53.0	52.1	51.1
Postcard	1.3	0.6	0.2	0.4	1.4
Coated Bristol	253.9	276.6	233.8	238.2	290.3
Total Packaging and Industrial Papers	**5,817.6**	**5,879.6**	**5,905.4**	**5,570.5**	**5,550.3**
Unbleached Kraft and Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**5,294.0**	**5,385.1**	**5,374.2**	**5,106.8**	**4,764.0 2/**
Unbleached Kraft Papers	3,948.4	4,010.9	4,108.4	3,961.6	3,872.5
Wrapping	172.9	175.2	169.3	129.5	119.1
Bag and Sack (Exc. Shipping Sack)	2,106.2	2,231.2	2,230.2	2,268.1	2,183.5
Shipping Sack	1,012.5	970.9	1,067.8	1,013.9	991.3
Other Converting	656.8	633.6	641.1	550.1	578.6
Bleached Packaging Papers (Census)	1,127.0 **	1,115.2 **	1,031.9	943.5	N.A.
Wrapping	136.1	154.2	118.9	102.6	49.5 2/
Bag and Sack (Exc. Shipping Sack)	304.1	276.7	250.4	228.6	208.5 2/
Shipping Sack	106.8	91.6	102.4	92.0	77.7 2/
Other Converting 1/	580.0	592.7	560.2	520.3)	
Glassine, Grsprf and Veg. Parch. (Census)	218.6	259.0	233.9	201.7)	1,342.1 2/
Special Industrial Papers	**523.6**	**494.5**	**531.2**	**463.7)**	
Total Tissue Papers	**4,285.2**	**4,214.8**	**4,520.5**	**4,438.7**	**4,503.5**
Total Sanitary Tissue Stock	**4,069.6**	**4,017.4**	**4,324.5**	**4,284.8**	**4,366.9**
Toilet Tissue	1,660.2	1,643.2	1,742.4	1,685.0	1,714.1
Single Ply	866.5	865.4	956.3	881.9	930.4
Multi-Ply	793.6	777.9	786.1	803.1	783.6
Facial Tissue Stock	336.0	329.0	357.9	360.4	369.4
Napkin Stock	491.9	493.1	537.2	561.8	577.8
Single Ply	406.8	409.5	450.7	445.9	446.8
Multi-Ply	85.1	83.6	86.5	115.8	130.8
Towelling	1,353.4	1,317.6	1,404.0	1,392.4	1,415.3
Wiper Stock	43.8	44.8	58.8	58.1	78.0
Other Sanitary Tissue	184.3	189.6	224.2	227.1	213.1
Total All Other Tissue	**216.0**	**197.4**	**196.0**	**153.9**	**136.6**
Waxing Tissue Stock	36.3	35.2	37.1	27.3	25.9
Wrapping Tissue Stock	55.3	52.0	53.1	47.1	56.8
Industrial Cellulose Wadding	*	*	*	*	*
Miscellaneous Tissue	124.4	110.2	105.8	79.5	54.0

1/ Excludes Bleached Kraft Envelope Paper 2/ API data R - Revised P - Preliminary

NOTE (Census): Current Industrial Report, Pulp, Paper and Board

* Included in Miscellaneous Tissue ** Data overstated by about 10%, export data not available

TABLE III

PAPERBOARD PRODUCTION 1955-1981

BY END USE

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC USE Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,400	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970	25,383,000	13,964,300	9,403,100	4,264,000	297,200
1971	26,037,000	14,353,000	9,530,800	4,519,700	302,500
1972	28,502,500	16,019,000	10,856,500	4,846,500	315,900
1973	29,571,500	16,928,100	11,355,900	5,255,000	317,100
1974	28,914,900	16,767,000	11,305,400	5,179,200	282,300
1975	24,755,700	14,586,200	9,854,200	4,449,300	282,600
1976	28,439,500	16,700,200	11,375,900	5,061,500	262,900
1977	28,953,100	17,167,300	11,695,700	5,207,900	263,700
1978	30,274,900	17,908,200	12,133,700	5,503,100	271,500
1979	31,428,900	18,824,800	12,819,500	5,775,900	229,300
1980	30,952,300	18,070,200	12,393,100	5,445,600	231,500
1981	31,232,200	19,040,000	13,078,500	5,702,100	259,500

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1981

BY END USE

TONS

YEAR	BOXBOARD-DOMESTIC USE Total	Folding	Set-Up	Milk Carton & Food Service	ALL OTHER Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970	6,238,700	4,079,700	466,500	1,692,500	5,180,000
1971	6,233,600	4,139,400	447,900	1,646,300	5,450,400
1972	6,551,000	4,439,800	455,100	1,656,100	5,932,500
1973	6,764,300	4,704,500	465,300	1,594,500	5,879,200
1974	6,399,000	4,426,500	403,600	1,568,900	5,748.900
1975	5,663,800	3,896,400	304,500	1,462,900	4,50[illegible]700
1976	6,564,700	4,714,600	331,500	1,518,600	5,174,500
1977	6,332,200	4,546,700	302,500	1,483,100	5,453,500
1978	6,501,200R	4,702,400R	332,700	1,466,100R	5,865,500R
1979	6,469,200R	4,720,500R	306,000	1,442,700R	6,135,000R
1980	6,153,100R	4,489,900R	241,500	1,421,700	6,729,000R
1981	6,216,100	4,587,600	236,000	1,392,500	5,976,100

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1981

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD TOTAL	LINERBOARD		
		Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,869,700	4,097,900	771,800
1958	7,259,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,900	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,248,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970	13,964,300	9,403,100	9,133,400	269,700
1971	14,353,000	9,530,800	9,249,100	281,700
1972	16,019,000	10,856,500	10,577,600	278,900
1973	16,928,100	11,355,900	11,066,900	289,100
1974	16,767,000	11,305,400	10,838,400	467,100
1975	14,586,200	9,854,200	9,646,900	207,300
1976	16,700,200	11,375,900	11,093,200	282,700
1977	17,167,300	11,695,700	11,354,400	341,400
1978	17,908,200	12,133,700	11,877,200	256,400
1979	18,824,800	12,819,500	12,417,300	402,300
1980	18,070,200	12,393,100	11,948,600	444,500
1981	19,040,000	13,078,500	12,754,300	324,200

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1981

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL Total	 Semi-Chemical	 Recycled	CHIP & FILLER BOARDS Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,800	2,909,800	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970	4,264,000	3,404,700	859,300	297,200
1971	4,519,700	3,580,200	939,500	302,500
1972	4,846,500	3,874,200	972,300	315,900
1973	5,255,000	4,126,500	1,128,500	317,100
1974	5,179,200	4,010,300	1,169,000	282,300
1975	4,449,300	3,579,400	870,000	282,600
1976	5,061,500	3,986,500	1,075,100	262,900
1977	5,207,900	4,128,200	1,079,700	263,700
1978	5,503,100	4,305,300	1,197,800	271,500
1979	5,775,900	4,573,600	1,202,300	229,300
1980	5,445,600	4,398,500	1,047,100	231,500
1981	5,702,100	4,561,200	1,140,900	259,500

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1981

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS

YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	986,800	329,200	178,800	182,300	101,100
1965	752,100	1,051,800	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970	940,700	1,265,900	386,900	287,200	221,600	102,800
1971	918,800	1,394,900	366,700	278,100	280,900	108,200
1972	894,400	1,575,700	395,600	315,900	308,700	117,200
1973	871,200	1,730,300	410,400	296,600	348,500	114,400
1974	850,200	1,678,700	415,800	289,800	382,700	92,700
1975	865,800	1,458,000	350,600	234,200	315,800	76,700
1976	822,900	1,799,500	412,300	266,800	402,200	91,400
1977	808,700	1,592,000	401,300	262,400	525,200	80,200
1978	731,200	1,763,400R	418,500R	307,100	594,900R	109,500
1979**	718,700	1,713,600R	432,000R	274,100	686,900R	110,900
1980	677,600	1,574,700R	419,500	298,400	739,300R	96,300
1981	631,800	1,655,000	441,600	287,400	738,700	100,600

* - Includes Exports
** - Starting in 1979 lightweight cup is included with heavyweight cup.

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1981

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS

	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
YEAR	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	2,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970	3,205,100	1,692,500	1,512,600	167,800	3,372,900
1971	3,347,600	1,646,300	1,701,300	60,500	3,408,100
1972	3,607,500	1,656,100	1,951,400	101,800	3,709,300
1973	3,771,400	1,594,500	2,176,900	81,500	3,852,900
1974	3,709,800	1,568,900	2,140,900	59,500	3,769,300
1975	3,301,000	1,462,900	1,838,200	40,300	3,341,400
1976	3,795,200	1,518,600	2,276,600	43,400	3,838,500
1977	3,669,700	1,483,100	2,186,600	47,300	3,717,000
1978	3,924,700	1,466,100R	2,458,600R	47,700	3,972,400
1979	3,936,200	1,442,700R	2,493,500R	61,900	3,998,100
1980	3,806,000	1,421,700	2,384,300	56,200	3,862,300
1981	3,855,100	1,392,500	2,462,600	54,800	3,909,900

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1981

TONS

	PAPERBOARD	CONTAINERBOARD-DOMESTIC			
YEAR	TOTAL	Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	569,200	34,800
1970	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,800	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,000	536,400	35,200	445,400	55,800
1976	2,255,000	566,200	70,800	448,200	47,200
1977	2,247,100	562,800	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,800	486,900	27,300	415,200	44,400
1981	1,867,700	369,900	-	328,500	41,400
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970	15,078,400	8,961,400	7,306,700	1,618,400	36,300
1971	15,782,300	9,330,600	7,507,500	1,789,600	33,500
1972	17,484,000	10,671,200	8,658,700	1,988,000	24,500
1973	18,179,900	11,257,000	9,083,700	2,158,900	14,400
1974	17,878,400	11,006,800	8,883,300	2,111,000	12,400
1975	15,752,600	9,882,100	7,957,700	1,860,900	63,400
1976	18,121,100	11,400,600	9,178,200	2,181,400	41,100
1977	18,223,100	11,541,000	9,299,000	2,199,400	42,700
1978	19,540,200	12,268,700	9,890,100	2,331,500	47,100
1979	20,219,100	12,692,100	10,280,500	2,376,900	34,700
1980	20,192,200	12,119,900	9,897,500	2,196,400	26,000
1981	20,442,000	12,863,000	10,527,900	2,301,000	34,100

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1981

TONS

YEAR	BOXBOARD-DOMESTIC Total	Folding	Set-Up	Milk Carton & Food Service	ALL OTHER Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,900	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,400	582,000	116,500	26,000	791,200
1976	841,000	690,800	120,900	29,400	847,900
1977	865,000	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
1981	780,100	687,900	63,400	28,800	717,700
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970	3,166,000	1,628,800	113,300	1,423,900	2,951,000
1971	3,320,500	1,784,600	105,300	1,430,600	3,131,200
1972	3,519,300	1,964,100	108,400	1,446,800	3,293,600
1973	3,776,400	2,244,400	118,000	1,414,000	3,146,500
1974	3,660,200	2,168,400	105,000	1,386,800	3,211,400
1975	3,352,700	2,000,100	89,500	1,263,000	2,517,800
1976	3,931,400	2,500,700	99,800	1,330,800	2,789,100
1977	3,700,600	2,316,700	96,700	1,287,300	2,981,400
1978	3,939,800R	2,534,200R	104,500	1,301,100R	3,331,700R
1979	3,974,000R	2,592,700R	104,500	1,276,800R	3,553,000R
1980	3,149,900R	1,795,200R	100,400	1,254,400	4,922,400R
1981	3,201,000	1,863,000	105,300	1,232,700	4,378,100

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1981

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,500	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,400	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,928,000	1,869,900	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,600	2,271,100	191,400	1,943,500	136,100
1981	4,288,300	2,417,000	143,300	2,124,800	148,800
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,300	2,533,600	1,867,000	644,900	21,600
1972	4,150,200	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	16,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,300	3,053,100	2,208,800	827,600	16,800
1978	4,286,200	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000
1981	4,634,300	3,390,200	2,407,300	947,800	35,100

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1981

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,600	978,200	52,500	-	835,900
1981	1,062,300	1,011,800	50,500	-	809,000
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000
1981	500,900	353,100	16,700	131,100	743,100

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1981

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1968	13,388,400	9,043,700	4,061,900	282,800	6,334,000	4,218,300	519,500
1969	14,396,500	9,692,500	4,395,400	308,600	6,424,800	4,261,600	498,600
1970	13,964,300	9,403,100	4,264,000	297,200	6,238,700	4,079,700	466,500
1971	14,353,000	9,530,800	4,519,700	302,500	6,233,600	4,139,400	447,900
1972	16,018,900	10,856,500	4,846,500	315,900	6,551,000	4,439,800	455,100
1973	16,928,100	11,355,900	5,255,000	317,100	6,764,300	4,704,500	465,300
1974	16,767,000	11,305,400	5,179,200	282,300	6,399,000	4,426,500	403,600
1975	14,586,200	9,854,200	4,449,300	282,600	5,663,800	3,896,400	304,500
1976	16,700,200	11,375,900	5,061,500	262,900	6,564,700	4,714,600	331,500
1977	17,167,300	11,695,700	5,207,900	263,700	6,332,200	4,546,700	302,500
1978	17,908,200	12,133,700	5,503,100	271,500	6,501,200R	4,702,400R	332,700
1979	18,824,800	12,819,600	5,775,900	229,300	6,469,200R	4,720,500R	306,000
1980	18,070,200	12,393,100	5,445,600	231,500	6,153,100R	4,489,900R	241,500
1981	19,040,000	13,078,500	5,702,100	259,500	6,216,100	4,587,600	236,000
Unbleached Kraft							
1968	8,535,500	8,511,400	7,400	16,700	261,000	261,000	-
1969	9,242,100	9,210,700	8,100	23,300	287,200	287,200	-
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,700	389,700	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,200	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,200	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	588,000	588,000	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	698,400	698,400	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
1981	12,653,700	12,653,700	-	-	671,900	671,900	-
Semichemical							
1968	3,366,600	-	3,363,800	2,800	-	-	-
1969	3,611,100	-	3,608,900	2,200	-	-	-
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,200	-	3,874,200	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-
1981	4,561,200	-	4,561,200	-	-	-	-

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1981

TONS

	BOXBOARD (Cont.)	ALL OTHER (Exc. Exports)				EXPORTS	ALL GRADES
YEAR	Milk Carton & Food Service	TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	Total	Total
Total Paperboard							
1968	1,596,200	3,585,200	784,000	779,900	2,021,300	1,596,000	24,903,600
1969	1,664,600	3,694,400	822,600	860,500	2,011,300	1,860,100	26,375,700
1970	1,692,500	3,280,700	775,700	887,300	1,617,700	1,899,400	25,383,000
1971	1,646,300	3,335,000	935,700	925,700	1,473,500	2,115,400	26,037,000
1972	1,656,100	3,701,100	1,016,600	1,065,500	1,619,000	2,231,400	28,502,500
1973	1,594,900	3,864,900	1,050,300	1,145,400	1,668,200	2,015,200	29,571,400
1974	1,568,900	3,599,400	984,200	1,128,500	1,486,800	2,149,500	28,914,900
1975	1,462,900	3,052,200	893,800	907,500	1,250,900	1,453,500	24,755,700
1976	1,518,600	3,465,300	984,500	1,016,500	1,464,300	1,709,200	28,439,500
1977	1,483,100	3,623,100	1,056,800	1,075,900	1,490,400	1,830,500	28,953,100
1978	1,466,100R	3,825,500	1,094,000	1,163,000	1,568,500	2,040,000R	30,274,900
1979	1,442,700R	3,873,000	1,179,900	1,177,200	1,515,900	2,262,000R	31,428,900
1980	1,421,700	3,394,800	918,800	1,077,600	1,398,400	3,334,100R	30,952,300
1981	1,392,500	3,354,000	887,600	1,114,600	1,351,700	2,622,000	31,232,200
Unbleached Kraft							
1968	-	584,600	-	175,400	409,200	1,380,700	10,761,800
1969	-	604,200	-	187,300	416,900	1,682,800	11,816,300
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,300	-	226,200	333,100	1,596,700	13,562,500
1974	-	526,300	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,058,000	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,800	-	267,000	233,800	1,645,300	15,151,000
1980	-	382,800	-	226,400	156,400	2,379,800	15,295,200
1981	-	390,200	-	219,300	170,900	1,886,600	15,602,400
Semichemical							
1968	-	14,400	-	12,300	2,100	94,000	3,475,000
1969	-	33,000	-	13,500	19,500	52,400	3,696,500
1970	-	33,200	-	23,700	9,500	84,300	3,518,400
1971	-	16,900	-	14,100	2,800	104,000	3,700,000
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,300	-	17,400	6,000	145,500	4,175,400
1975	-	15,900	-	14,000	1,900	115,400	3,701,800
1976	-	19,300	-	18,100	1,200	119,300	4,105,000
1977	-	14,300	-	14,300	-	121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,400	-	10,800	6,600	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500
1981	-	2,700	-	2,600	100	155,200	4,719,200

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1981

TONS

	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
YEAR	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1968	125,000	125,000	-	-	2,773,900	1,226,900	-
1969	134,700	134,700	-	-	2,970,300	1,345,900	-
1970	118,800	118,800	-	-	2,912,300	1,263,300	-
1971	124,400	124,400	-	-	2,996,400	1,392,100	-
1972	129,800	129,800	-	-	3,196,300	1,572,800	-
1973	127,700	127,700	-	-	3,322,600	1,728,200	-
1974	99,400	99,400	-	-	3,244,600	1,675,900	-
1975	81,800	81,800	-	-	2,917,700	1,455,600	-
1976	99,500	99,500	-	-	3,315,700	1,797,200	-
1977	85,000	85,000	-	-	3,074,500	1,591,500	
1978	115,700	115,700	-	-	3,229,500R	1,763,400R	-
1979	110,900	110,900	-	-	3,156,200R	1,713,600R	-
1980	96,300	96,300	-	-	2,996,400R	1,574,700R	-
1981	100,600	100,600	-	-	3,047,500	1,655,000	-
Recycled							
1968	1,361,300	407,300	690,700	263,300	3,299,100	2,730,400	519,500
1969	1,408,600	347,100	778,400	283,100	3,167,300	2,628,500	498,600
1970	1,400,700	269,700	859,300	271,800	2,983,000	2,473,000	466,500
1971	1,494,100	281,700	939,500	272,900	2,897,700	2,407,700	447,900
1972	1,545,000	278,900	972,300	293,800	2,964,900	2,477,200	455,100
1973	1,724,500	289,100	1,128,500	306,900	2,987,000	2,521,600	465,300
1974	1,906,800	467,100	1,169,000	270,800	2,684,800	2,280,900	403,600
1975	1,347,700	207,300	870,000	270,400	2,283,200	1,977,900	304,500
1976	1,610,500	282,700	1,075,100	252,800	2,671,600	2,340,000	331,500
1977	1,671,100	341,400	1,079,700	250,100	2,669,700	2,367,200	302,500
1978	1,707,600	256,400	1,197,800	253,400	2,654,100	2,321,400	332,700
1979	1,833,900	402,300	1,202,300	229,300	2,614,500	2,308,500	306,000
1980	1,723,100	444,500	1,047,100	231,500	2,476,300	2,234,800	241,500
1981	1,724,500	324,200	1,140,800	259,500	2,496,800	2,260,800	236,000

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1981

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES TOTAL
Solid Bleached							
1968	1,547,000	316,400	-	7,800	308,600	108,500	3,323,800
1969	1,624,400	327,700	-	8,300	319,400	108,100	3,540,800
1970	1,649,000	197,400	-	-	197,400	114,400	3,342,900
1971	1,604,300	104,000	-	-	104,000	156,500	3,381,300
1972	1,623,500	142,500	-	-	142,500	217,800	3,686,400
1973	1,594,400	133,500	-	-	133,500	280,300	3,864,000
1974	1,568,700	108,900	-	-	108,900	320,200	3,773,100
1975	1,462,100	87,500	-	-	87,500	256,200	3,343,300
1976	1,518,500	122,900	-	-	122,900	306,100	3,844,100
1977	1,483,100	172,400	-	-	172,400	389,400	3,721,300
1978	1,466,100R	200,500	-	-	200,500	432,900R	3,978,600
1979	1,442,700R	234,300	-	-	234,300	496,700R	3,998,100
1980	1,421,700	220,100	-	-	220,100	549,400R	3,862,300
1981	1,392,500	205,300	-	-	205,300	556,600	3,909,900
Recycled							
1968	49,200	2,669,800	784,000	584,400	1,301,400	12,800	7,343,000
1969	40,200	2,729,500	822,600	651,400	1,255,500	16,800	7,322,300
1970	43,500	2,579,600	775,700	688,200	1,115,800	17,300	6,980,500
1971	42,100	2,743,100	935,700	717,100	1,090,300	20,600	7,155,500
1972	32,600	3,013,400	1,016,600	824,600	1,172,200	14,400	7,537,800
1973	100	3,142,500	1,050,300	900,900	1,191,300	30,800	7,884,600
1974	200	2,941,000	984,200	880,100	1,076,700	101,000	7,633,500
1975	800	2,512,900	893,800	717,600	901,500	23,900	6,167,700
1976	100	2,839,600	984,500	780,900	1,074,200	36,500	7,158,100
1977	-	2,946,100	1,056,800	833,700	1,055,500	29,600	7,316,500
1978	-	3,101,400	1,094,000	897,900	1,109,500	21,600	7,484,500
1979	-	3,120,500	1,179,900	899,400	1,041,220	21,800	7,590,700
1980	-	2,789,300	918,800	848,900	1,021,600	82,600	7,071,300
1981	-	2,755,700	887,600	892,700	975,300	23,800	7,000,700

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VIII

PAPERBOARD PRODUCTION

BY MONTHS

1981

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Containerboard-Domestic Use	1,645,500	1,553,100	1,710,600	1,653,700	1,687,600	1,593,100
Linerboard	1,122,000	1,059,800	1,173,000	1,150,300	1,161,100	1,096,500
Kraft	1,089,100	1,030,700	1,141,600	1,119,800	1,137,400	1,069,200
Recycled	32,800	29,000	31,300	30,500	23,700	27,300
Corrugating	502,500	473,200	514,700	481,300	503,600	474,300
Semichemical	406,600	380,800	415,300	393,800	403,900	373,800
Recycled	95,900	92,400	99,400	87,400	99,700	100,400
Container Chip	20,900	20,100	23,000	22,100	22,900	22,400
Boxboard-Domestic Use	496,300	453,500	499,500	488,400	517,300	468,300
Folding	344,700	319,100	354,100	345,200	358,600	330,200
Set-Up	18,400	19,100	22,100	20,700	20,300	19,200
Milk Carton & Food Service	133,200	115,400	123,300	122,500	138,500	118,900
All Other	571,300	522,400	621,500	604,700	635,200	592,600
Domestic	358,800	320,400	366,000	350,900	378,600	362,500
Export	212,500	202,000	255,400	253,900	256,700	230,100
TOTAL PAPERBOARD	2,713,100	2,529,000	2,831,600	2,746,800	2,840,200	2,654,000

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX

BOX PLANT CONSUMPTION

BY MONTHS

1981

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Linerboard and Corrugating Material	1,548,300	1,456,900	1,600,300	1,572,600	1,435,300	1,538,300
Total Containerboard	1,552,100	1,460,200	1,602,700	1,575,100	1,438,500	1,540,100

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE VIII (Cont.)

PAPERBOARD PRODUCTION

BY MONTHS

1981

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Containerboard-Domestic	1,547,100	1,658,800	1,607,800	1,628,900	1,533,600	1,220,100	19,040,000
Linerboard	1,055,700	1,151,300	1,120,800	1,117,700	1,053,000	817,400	13,078,500
Kraft	1,031,200	1,126,600	1,093,700	1,091,300	1,026,900	796,600	12,754,300
Recycled	24,500	24,700	27,100	26,400	26,100	20,800	324,200
Corrugating	470,300	482,700	465,900	486,700	459,400	387,400	5,702,000
Semichemical	376,500	380,600	372,600	387,600	363,200	306,400	4,561,100
Recycled	93,800	102,100	93,300	99,100	96,200	81,000	1,140,900
Container Chip	21,200	24,800	21,000	24,500	21,200	15,300	259,500
Boxboard-Domestic	428,300	478,200	452,200	465,800	438,400	358,000	5,544,300
Folding	297,600	350,500	319,800	329,200	311,700	255,100	3,915,800
Set-Up	17,600	22,200	21,600	21,700	18,100	15,000	236,000
Milk Carton & Food Service	113,100	105,500	110,800	114,900	108,600	87,900	1,392,500
All Other	526,600	586,000	510,100	528,100	506,400	443,000	6,648,000
Domestic	323,300	340,500	322,800	338,700	295,800	267,500	4,025,800
Export	203,300	245,500	187,300	189,400	210,600	175,500	2,622,200
TOTAL PAPERBOARD	2,502,100	2,723,000	2,570,000	2,622,900	2,478,400	2,021,100	31,232,200

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX (Cont.)

BOX PLANT CONSUMPTION

BY MONTHS

1981

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Linerboard and Corrugating Material	1,480,600	1,490,800	1,546,200	1,552,100	1,312,400	1,258,900	17,792,800
Total Containerboard	1,482,300	1,492,700	1,548,800	1,554,700	1,314,500	1,259,400	17,821,200

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE X

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1981

000 Short Tons	1959	1960	1961	1962	1963	1964
Production - Total	33,748	33,904	35,178	37,062	38,647	40,962
Total Paper	15,025	15,295	15,821	16,560	17,320	18,112
Total Paperboard	15,972	15,926	16,727	17,847	18,594	19,954
Unbleached Kraft E	5,214	5,342	5,814	6,316	6,750	7,600
Semichemical E	1,774	1,791	2,017	2,198	2,304	2,481
Bleached Kraft E *	2,000	2,039	2,218	2,429	2,539	2,666
Recycled E	6,984	6,754	6,678	6,905	7,001	7,207
Wet Machine Board	145	175	155	146	141	148
Building Paper	1,435	1,410	1,391	1,429	1,453	1,533
Insulating Board	1,171	1,098	1,084	1,080	1,139	1,215
New Supply R						
Total Paper R	20,120	20,490	20,928	21,781	22,475	23,748
Newsprint	7,118	7,329	7,294	7,460	7,498	8,051
Printing/Writing Papers R	6,863	7,077	7,329	7,772	8,153	8.655
Uncoated Grounded R	933	960	933	942	990	1,053
Coated R	1,967	2,096	2,138	2,266	2,398	2,572
Uncoated Free Sheet R	3,051	3,076	3,239	3,431	3,609	3,824
Thin and Cotton Fiber	244	251	260	290	287	301
Bleached Bristols	668	694	759	843	869	905
Packaging and Ind. Conv. Papers	4,023	3,893	3,997	4,143	4,258	4,316
Unbleached Kraft	2,796	2,730	2,767	2,889	3,024	3,038
Other	1,227	1,163	1,230	1,254	1,234	1,278
Tissue	2,116	2,191	2,305	2,406	2,566	2,725
Total Paperboard	15,604	15,475	16,201	17,312	17,941	18,976
Unbleached Kraft	4,902	4,970	5,417	5,890	6,254	6,843
Semichemical	1,753	1,760	1,955	2,154	2,221	2,374
Bleached Board	1,983	2,016	2,186	2,396	2,500	2,621
Recycled	6,966	6,729	6,643	6,872	6,966	7,138
Construction and Other	2,752	2,675	2,610	2,644	2,733	2,917
Total All Grades R	38,476	38,640	39,739	41,737	43,149	45,641
Paper and Products	20,072	20,441	20,953	21,794	22,438	23,689
Paperboard and Products	15,534	15,401	16,083	17,178	17,810	18,871
Total Including Products	38,358	38,517	39,646	41,616	42,981	45,477
Real G.N.P. - $ Bil., 1972 Prices Revised Series	**721.7**	**737.2**	**756.6**	**800.3**	**832.5**	**876.4**
New Supply to Real G.N.P - Revised						
Total Paper R	27.879	27.794	27.661	27.216	26.997	27.097
Newsprint R	9.863	9.942	9.640	9.322	9.007	9.186
Printing/Writing Papers	9.509	9.600	9.687	9.711	9.793	9.876
Uncoated Groundwood	1.293	1.302	1.233	1.177	1.189	1.201
Coated	2.726	2.843	2.826	2.832	2.881	2.934
Uncoated Free Sheet	4.228	4.173	4.281	4.287	4.335	4.364
Thin and Cotton Fiber	.338	.340	.344	.362	.345	.343
Bleached Bristols	.926	.941	1.003	1.053	1.044	1.032
Packaging and Ind. Conv. Papers	5.574	5.281	5.283	5.177	5.114	4.924
Unbleached Kraft	3.874	3.703	3.657	3.610	3.632	3.466
Other	1.700	1.578	1.626	1.567	1.482	1.458
Tissue	2.932	2.972	3.047	3.006	3.082	3.109
Total Paperboard	21.621	20.992	21.413	21.632	21.551	21.652
Unbleached Kraft	6.792	6.742	7.160	7.360	7.512	7.808
Semichemical	2.429	2.387	2.584	2.691	2.668	2.709
Bleached Board	2.748	2.735	2.889	2.994	3.003	2.991
Recycled	9.652	9.128	8.780	8.587	8.368	8.145
Construction and Other	3.813	3.629	3.450	3.304	3.283	3.328
Total All Grades R	53.313	52.415	52.523	52.152	51.831	52.078
Paper and Products	27.812	27.727	27.694	27.232	26.953	27.030
Paperboard and Products	21.524	20.891	21.257	21.464	21.393	21.532
Total Including Products	53.150	52.248	52.400	52.000	51.629	51.891

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. E - Estimate R - Revised

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1981

000 Short Tons	1965	1966	1967	1968	1969	1970
Production - Total	43,455	46,702	46,568	50,172	52,956	51,710
Total Paper	19,157	20,725	20,926	22,206	23,477	23,375
Total Paperboard	21,332	23,179	22,819	24,904	26,376	25,383
Unbleached Kraft	8,301E	9,303E	9,485E	10,762	11,816	11,541
Semichemical	2,681E	2,969E	3,057E	3,475	3,697	3,518
Bleached Kraft	2,818E*	3,053E*	3,060E*	3,324	3,541	3,343
Recycled	7,532E	7,853E	7,217E	7,343	7,322	6,981
Wet Machine Board	144	148	144	155	148	139
Building Paper	1,574	1,495	1,503	1,574	1,603	1,594
Insulating Board	1,248	1,155	1,176	1,333	1,352	1,219
New Supply R						
Total Paper R	25,197	27,323	27,231	28,301	30,001	29,673
Newsprint R	8,510	9,268	9,165	9,307	9,959	9,797
Printing/Writing Papers R	9,348	10,362	10,208	10,556	11,278	11,073
Uncoated Groundwood R	1,069	1,217	1,163	1,219	1,306	1,310
Coated R	2,767	3,039	3,041	3,083	3,282	3,207
Uncoated Free Sheet R	4,198	4,676	4,584	4,799	5,195	5,132
Thin and Cotton Fiber	314	351	345	351	371	353
Bleached Bristols	1,000	1,079	1,077	1,104	1,124	1,071
Packaging and Ind. Conv. Papers	4,473	4,610	4,645	5,003	5,173	5,105
Unbleached Kraft	3,150	3,269	3,233	3,494	3,602	3,582
Other	1,323	1,341	1,412	1,509	1,571	1,523
Tissue	2,866	3,083	3,212	3,435	3,591	3,698
Total Paperboard	20,301	22,063	21,498	23,325	24,526	23,495
Unbleached Kraft	7,401	8,332	8,317	9,388	10,135	9,858
Semichemical	2,626	2,905	2,981	3,381	3,645	3,434
Bleached Board	2,771	2,994	2,999	3,216	3,432	3,229
Recycled	7,503	7,832	7,201	7,340	7,314	6,974
Construction and Other	2,972	2,789	2,825	3,073	3,105	2,972
Total All Grades R	48,470	52,175	51,554	54,699	57,632	56,140
Paper and Products	25,130	27,386	27,238	28,341	30,044	29,804
Paperboard and Products	20,168	21,940	21,369	22,975	24,314	23,232
Total including Products	48,270	52,115	51,432	54,389	57,463	56,008
Real G.N.P.- $ Bil., 1972 Prices Revised Series	**929.3**	**984.8**	**1,011.4**	**1,058.1**	**1,087.6**	**1,085.6**
Ratio of New Supply to Real GNP - Revised						
Total Paper R	27.114	27.745	26.924	26.746	27.585	27.333
Newsprint R	9.157	9.411	9.062	8.796	9.157	9.025
Printing/Writing Papers	10.058	10.522	10.095	9.976	10.369	10.200
Uncoated Groundwood	1.150	1.236	1.150	1.152	1.201	1.207
Coated	2.977	3.086	3.007	2.913	3.017	2.954
Uncoated Free Sheet	4.517	4.748	4.533	4.536	4.777	4.727
Thin and Cotton Fiber	.338	.356	.341	.332	.341	.325
Bleached Bristols	1.076	1.096	1.064	1.043	1.033	.987
Packaging and Ind. Conv. Papers	4.814	4.681	4.593	4.728	4.756	4.703
Unbleached Kraft	3.390	3.319	3.197	3.302	3.312	3.300
Other	1.424	1.362	1.396	1.426	1.444	1.403
Tissue	3.084	3.131	3.176	3.246	3.302	3.406
Total Paperboard	21.846	22.404	21.255	22.044	22.551	21.641
Unbleached Kraft	7.964	8.461	8.223	8.873	9.319	9.081
Semichemical	2.826	2.950	2.947	3.195	3.351	3.163
Bleached Board	2.982	3.040	2.965	3.039	3.156	2.973
Recycled	8.074	7.953	7.120	6.937	6.725	6.424
Construction and Other	3.198	2.832	2.793	2.904	2.855	2.738
Total All Grades R	52.158	52.980	50.973	51.695	52.990	51.713
Paper and Products	27.042	27.809	26.931	26.785	27.624	27.454
Paperboard and Products	21.702	22.279	21.128	21.713	22.356	21.400
Total Including Products	51.942	52.919	50.852	51.403	52.835	51.592

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1981

000 Short Tons	1971	1972	1973	1974	1975	1976
Production - Total	53,203	57,477	59,936	59,210	51,126	58,486
Total Paper	23,745	25,383	26,811	27,011	23,391	26,608
Total Paperboard	26,037	28,502	29,571	28,915	24,756	28,440
Unbleached Kraft	11,800	13,268	13,563	13,333	11,543	13,332
Semichemical	3,700	4,010	4,260	4,175	3,702	4,105
Bleached Kraft	3,381	3,686	3,864	3,773	3,343	3,844
Recycled	7,156	7,538	7,885	7,634	6,168	7,158
Wet Machine Board	138	148	149	144	115	130
Building Paper	1,837	1,915	1,858	1,845	1,615	1,771
Insulating Board	1,446	1,529	1,547	1,295	1,249	1,434
New Supply R						
Total Paper R	30,105	32,058	34,041	34,323	28,393	32,648
Newsprint R	9,773	10,269	10,877	10,955	9,048	9,917
Printing/Writing Papers R	11,352	12,373	13,548	13,624	10,979	13,324
Uncoated Groundwood R	1,323	1,334	1,388	1,460	1,316	1,588
Coated R	3,165	3,455	3,757	3,739	3,076	3,890
Uncoated Free Sheet R	5,449	6,034	6,759	6,822	5,322	6,459
Thin and Cotton Fiber	338	390	410	401	334	363
Bleached Bristols	1,077	1,160	1,234	1,201	931	1,024
Packaging and Ind. Conv. Papers	5,163	5,459	5,600	5,682	4,419	5,241
Unbleached Kraft	3,598	3,791	3,916	4,099RS	3,200	3,741
Other	1,565	1,668	1,684	1,583	1,219	1,500
Tissue	3,817	3,957	4,016	4,062	3,948	4,166
Total Paperboard	23,938	26,279	27,590	26,799	23,311	26,744
Unbleached Kraft	9,976	11,381	11,972	11,760	10,485	12,089
Semichemical	3,596	3,898	4,153	4,029	3,587	3,986
Bleached Board	3,224	3,468	3,584	3,453	3,087	3,538
Recycled	7,142	7,532	7,881	7,557	6,152	7,131
Construction and Other	3,467	3,650	3,604	3,301	3,001	3,367
Total All Grades R	57,510	61,987	65,235	64,423	54,704	62,759
Paper and Products	30,412	32,290	34,073	33,888	28,449	32,643
Paperboard and Products	23,613	26,142	27,362	26,288	22,811	26,161
Total Including Products	57,492	62,082	65,039	63,477	54,261	62,171
Real G.N.P.- $ Bil.,1972 Prices Revised Series	**1,122.4**	**1,185.9**	**1,254.3**	**1,246.3**	**1,231.6**	**1,298.2**
Ratio of New Supply to Real G.N.P						
Total Paper R	26.822	27.033	27.139	27.540	23.054	25.149
Newsprint R	8.707	8.659	8.672	8.790	7.347	7.639
Printing/Writing Papers	10.115	10.433	10.801	10.932	8.914	10.263
Uncoated Groundwood	1.179	1.125	1.107	1.171	1.069	1.223
Coated	2.820	2.913	2.995	3.000	2.498	2.996
Uncoated Free Sheet	4.855	5.088	5.389	5.474	4.321	4.975
Thin and Cotton Fiber	.301	.328	.327	.322	.271	.280
Bleached Bristols	.960	.978	.984	.964	.756	.789
Packaging and Ind. Conv. Papers	4.600	4.604	4.465	4.559	3.588	4.037
Unbleached Kraft	3.206	3.197	3.122	3.289RS	2.598	2.882
Other	1.394	1.407	1.343	1.270	.990	1.155
Tissue	3.401	3.337	3.202	3.259	3.206	3.209
Total Paperboard	21.327	22.159	21.996	21.503	18.927	20.601
Unbleached Kraft	8.888	9.597	9.545	9.436	8.513	9.312
Semichemical	3.204	3.287	3.311	3.233	2.912	3.070
Bleached Board	2.872	2.924	2.857	2.771	2.506	2.725
Recycled	6.363	6.351	6.283	6.064	4.995	5.493
Construction and Other	3.090	3.078	2.873	2.649	2.437	2.594
Total All Grades R	51.238	52.270	51.009	51.691	44.417	48.343
Paper and Products	27.096	27.228	27.165	27.191	23.099	25.145
Paperboard and Products	21.038	22.044	21.815	21.093	18.521	20.152
Total Including Products	51.222	52.350	51.853	50.932	44.057	47.890

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. R - Revised RS - Revised Series

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1981

000 Short Tons	1977	1978R	1979R	1980R	1981P
Production - Total	60,207	62,221	64,546	63,768	64,375
Total Paper	27,870	28,470	29,842	30,258	31,028
Total Paperboard	28,953	30,275	31,429	30,952	31,232
Unbleached Kraft	13,651	14,372	15,151	15,295	15,602
Semichemical	4,264	4,439	4,689	4,724	4,719
Bleached Kraft	3,721	3,979	3,998	3,862	3,910
Recycled	7,317	7,485	7,591	7,071	7,001
Wet Machine Board	129	136	144	138	151
Building Paper	1,852	1,915	1,868	1,369	1,143
Insulating Board	1,403	1,425	1,263	1,051	820
New Supply R					
Total Paper R	34,293	36,125	37,608	37,251	37,669
Newsprint R	10,080	10,788	11,159	11,377	11,696
Printing/Writing Papers	14,279	15,287	16,121	16,162	16,173
Uncoated Groundwood	1,749	1,907	2,123	2,085	1,993
Coated	4,274	4,593	4,642	4,695	4,890
Uncoated Free Sheet	6,820	7,259	7,917	8,043	7,900
Thin and Cotton Fiber	384	435	468	415	421
Bleached Bristols	1,052	1,092	971	924	968
Packaging and Ind. Conv. Papers	5,665	5,844	5,820	5,330	5,341
Unbleached Kraft	3,863	4,030	4,112	3,853	3,794
Other	1,802*	1,814*	1,708	1,477	1,547
Tissue	4,269	4,206	4,509	4,382	4,459
Total Paperboard	27,150	28,335	29,250	27,716	28,741
Unbleached Kraft	12,376	12,938	13,532	12,959	13,764
Semichemical	4,142	4,368	4,624	4,432	4,616
Bleached Board	3,332	3,546	3,502	3,313	3,353
Recycled	7,300	7,483	7,592	7,012	7,007
Construction and Other	3,464	3,737	3,598	2,968	2,433
Total All Grades R	64,907	68,196	70,455	67,935	68,843
Paper and Products	34,248	36,326	37,559	37,169	37,460
Paperboard and Products	26,696	27,897	28,840	27,197	28,179
Total Including Products	64,408	67,961	69,997	67,334	68,073
Real G.N.P.- $ Bil., 1972 Prices Revised Series	**1,369.7**	**1,438.6**	**1,479.4**	**1,474.0**	**1,502.6**
Ratio of New Supply to Real G.N.P.					
Total Paper R	25.037	25.111	25.421	25.272	25.069
Newsprint R	7.359	7.499	7.543	7.718	7.784
Printing/Writing Papers	10.425	10.626	10.897	10.965	10.763
Uncoated Groundwood	1.277	1.326	1.435	1.416	1.326
Coated	3.120	3.193	3.138	3.185	3.255
Uncoated Free Sheet	4.979	5.046	5.352	5.457	5.258
Thin and Cotton Fiber	.280	.302	.316	.281	.280
Bleached Bristols	.768	.759	.656	.627	.644
Packaging and Ind. Conv. Papers	4.136	4.063	3.934	3.616	3.555
Unbleached Kraft	2.820	2.801	2.779	2.614	2.525
Other	1.316*	1.261*	1.155	1.002	1.029
Tissue	3.117	2.923	3.048	2.973	2.967
Total Paperboard	19.822	19.696	19.771	18.803	19.127
Unbleached Kraft	9.036	8.994	9.147	8.792	9.160
Semichemical	3.024	3.036	3.126	3.007	3.072
Bleached Board	2.433	2.467	2.367	2.248	2.232
Recycled	5.330	5.201	5.132	4.757	4.663
Construction and Other	2.529	2.598	2.432	2.013	1.619
Total All Grades	47.388	47.405	47.625	46.088	45.816
Paper and Products	25.004	25.251	25.388	25.216	24.930
Paperboard and Products	19.490	19.392	19.494	18.451	18.753
Total Including Products	47.023	47.241	47.314	45.680	45.302

* Data overstated by about 10%, exact revision not available.
R - Revised P - Preliminary

TABLE XI

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1972 - 1984

(THOUSANDS OF TONS)

	1972	1973	1974	1975	1976	1977
TOTAL PAPER AND BOARD	59,965	62,284	63,779	64,369	65,673	66,459
Total Paper	26,545	27,621	28,532	28,922	29,210	29,831
Newsprint	3,490	3,597	3,722	3,848	4,014	4,069
Total Printing, Writing & Related	12,766	13,659	14,128	14,275	14,494	14,975
Groundwood Uncoated	1,353	1,403	1,280	1,329	1,309	1,367
Coated Papers - Total	3,866	4,045	4,075	4,065	4,202	4,397
Coated Groundwood	--	--	--	--	2,299	2,408
Coated Free Sheet	--	--	--	--	1,903	1,989
Uncoated Free Sheet	5,894	6,541	7,046	7,180	7,319	7,465
Cotton Fiber	152	149	142	139	142	133
Thin	320	342	351	367	358	402
Solid Bleached Bristols	1,182	1,179	1,235	1,194	1,165	1,213
Total Packaging & Ind. Conv.	5,997	6,060	6,360	6,368	6,202	6,242
Unbleached Kraft	4,053	4,138	4,389	4,333	4,218	4,317
Bleached Packaging & Ind. Conv.	1,374	1,292	1,291	1,194**	1,128	1,069
Special Industrial	571	629	679	841	856	856
Tissue	4,292	4,303	4,322	4,432	4,500	4,545
Total Paperboard	29,328	30,543	30,995	31,218	32,097	32,173
Total Unbl. Kraft Pkg. & Ind. Conv.	13,458	13,898	13,965	14,157	14,568	14,793
Linerboard	12,568	12,862	12,901	13,138	13,448	13,586
Folding	393	463	479	484	595	645
Other	497	573	585	536	525	561
Total Bleached Pkg. Paperboard	3,629	3,928	3,920	3,807	3,998	4,020
Folding	1,500	1,749	1,851	1,751	1,915	1,930
Milk Carton & Food Service	1,857	1,899	1,848	1,859	1,854	1,824
Linerboard	141	141	108	95	101	97
Other	129	139	113	102	128	170
Semichemical Paperboard	4,155	4,386	4,430	4,536	4,758	4,661
Total Recycled Paperboard	8,086	8,330	8,680	8,717	8,774	8,699
Linerboard	310	306	430	364	361	392
Corrugating Medium	1,063	1,178	1,358	1,449	1,476	1,337
Container Chip & Filler	329	349	344	408	398	403
Folding	2,673	2,664	2,665	2,658	2,705	2,674
Set-Up	540	518	505	465	450	443
Gypsum Wall Board Facing	1,044	1,093	1,100	1,063	1,046	1,112
Other	2,127	2,221	2,278	2,310	2,337	2,337
Total Paper and Paperboard	55,873	58,164	59,527	60,140	61,307	62,004
Total Wet Machine Board	197	182	188	217	216	180
Total Construction Paper & Board	3,894	3,939R	4,063	4,011	4,149	4,276
Construction Paper	2,070	2,102	2,165	2,270	2,317	2,364
Insulating Board	1,824	1,837R	1,898	1,741	1,832	1,912
Total Hard Pressed Board ###	1,903	2,247	2,334	2,460	2,511	2,536

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1981

* Average basis weight changed from 32 lbs. to 30 lbs. during 1974.

** Reflects shift of about 215,000 tons of bleached kraft envelope paper to uncoated free sheet in 1975 and later years.

R - Revised

- Not directly comparable with shipments data in Table II in 1972-1977 because of redefinition of certain grades from uncoated groundwood paper to newsprint.

- As reported in 1976 - 1979 Survey.

- Hard Pressed Board not included in Total Paper and Board.

TABLE XI (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1972 - 1984

(THOUSANDS OF TONS)

	1978	1979	1980	1981F	1982F	1983F	1984F
TOTAL PAPER AND BOARD	67,419	69,033	70,716	72,148	74,558	76,031	77,162
Total Paper	30,460	31,179	32,659	33,639	34,927	35,746	36,651
Newsprint	4,104	4,199	4,836	5,299	5,583	5,710	5,907
Total Printing, Writing & Related	15,566	16,057	16,798	17,331	18,011	18,556	19,230
Groundwood Uncoated	1,453	1,541	1,624	1,658	1,774	1,779	1,784
Coated Papers-Total	4,546	4,822	4,984	5,307	5,618	6,011	6,242
Coated Groundwood	2,450	2,554	2,762	3,081	3,364	3,652	3,750
Coated Free Sheet	2,096	2,268	2,222	2,226	2,254	2,359	2,492
Uncoated Free Sheet	7,847	8,152	8,645	8,791	9,017	9,123	9,532
Cotton Fiber	131	134	139	143	142	143	144
Thin	395	393	382	373	372	372	373
Solid Bleached Bristols	1,194	1,016	1,024	1,060	1,088	1,127	1,155
Total Packaging & Ind. Conv.	6,146	6,053	6,072	5,947	6,140	6,183	6,191
Unbleached Kraft	4,223	4,098	4,110	3,991	4,167	4,196	4,223
Bleached Packaging & Ind. Conv.	1,041	1,105	1,095	1,091	1,098	1,099	1,076
Excluding Specialty Packaging	N.A.	N.A.	597	558	559	559	545
Other	N.A.	N.A.	498	533	539	540	531
Special Industrial	883	850	866	865	875	888	892
Tissue	4,644	4,870	4,954	5,062	5,193	5,297	5,322
Total Paperboard	32,631	33,436	33,709	34,245	35,428	36,087	36,313
Total Unbl. Kraft Pkg. & Ind. Conv.	15,054	15,546	15,967	16,685	17,422	17,661	17,765
Liner	13,864	14,199	14,586	15,340	16,086	16,307	16,396
Folding	650	827	852	804	790	798	806
Other	540	520	529	540	547	556	563
Total Bleached Pkg. Paperboard	4,197	4,268	4,180	4,015	4,049	4,048	4,037
Folding	1,996	2,061	1,954	1,904	1,919	1,923	1,921
Milk Carton & Food Service	1,899	1,877	1,865	1,774	1,794	1,786	1,777
Liner	122	137	116	108	108	108	108
Other	179	193	246	229	228	230	231
Semichemical Paperboard	4,739	4,864	4,946	4,952	5,180	5,477	5,566
Total Recycled Paperboard	8,642	8,757	8,617	8,593	8,776	8,901	8,945
Linerboard	361	432	509	505	547	560	561
Corrugating Medium	1,343	1,392	1,330	1,332	1,385	1,415	1,425
Container Chip & Filler	311	287	283	283	286	287	287
Folding	2,568	2,615	2,593	2,638	2,657	2,689	2,704
Set-Up	418	404	349	321	352	362	369
Gypsum Wall Board Facing	1,238	1,273	1,238	1,247	1,269	1,285	1,288
Other	2,403	2,355	2,313	2,268	2,281	2,304	2,310
Total Paper and Paperboard	63,091	64,615	66,368	67,884	70,355	71,833	72,964
Total Wet Machine Board	145	154	163	161	161	161	161
Total Construction Paper & Board	4,182	4,265	4,184	4,104	4,042	4,037	4,037
Construction Paper	2,352	2,380	2,345	2,272	2,243	2,238	2,238
Insulating Board	1,830	1,885	1,839	1,832	1,799	1,799	1,799
Total Hard Pressed Board #	2,525##	2,556##	2,550##	N.A.	N.A.	N.A.	N.A.

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey various issues to December 1981

F - Forecast as reported in December 1980 Capacity Survey
N.A. - Not Available
# - Hard Pressed Board Not included in Total Paper and Board.
## - As reported in 1976 - 1979 Survey

TABLE XII

WOOD PULP CAPACITY

1972 - 1984

(Thousands of Tons)

	1972	1973	1974	1975	1976	1977	1978
TOTAL ALL GRADES (1)	46,760	48,459	48,995	49,502	50,547	51,849	52,714
Dissolving and Special Alpha	1,756	1,754	1,824	1,671	1,571	1,648	1,573
Chemical Paper Grades	35,118	36,631	36,912	37,411	38,292	39,174	39,998
Sulphate, Paper Grades Total	2,353	2,378	2,401	2,420	2,417	2,252	2,095
Bleached	1,949	1,977	2,014	1,993	1,972	1,812	1,675
Unbleached	404	401	387	427	445	440	420
Sulphate and Soda Total	32,765	34,253	34,511	34,991	35,875	36,922	37,903
Bleached Total	12,885	13,733	14,522	14,764	15,042	15,822	18,171
Hardwood	5,674	6,608	7,105	7,201	7,208	7,310	7,729
Softwood	7,211	7,125	7,417	7,563	7,835	8,512	10,442
Semi-Bleached Total	2,178	2,045	1,539	1,469	1,539	1,547	(2)
Hardwood	419	328	33	7	19	12	
Softwood	1,760	1,717	1,506	1,462	1,520	1,536	
Unbleached	17,702	18,475	18,451	18,758	19,293	19,552	19,732
Semichemical Total	3,937	4,171	4,233	4,246	4,402	4,514	4,572
Bleached	204	344	330	334	345	345	339
Unbleached	3,732	3,827	3,903	3,912	4,057	4,169	4,234
Mechanical Total (Groundwood)	4,593	4,532	8,230	8,515	8,704	6,442	6,507
For Paper and Board	-	-	-	4,247	4,416	4,502	4,580
Stone Groundwood	-	-	4,572(2)	3,615	3,540	3,397	3,328
Refiner	-	-	-	500	543	538	533
Thermo-Mechanical	-	-	-	131	333	567	719
For Other Paper and Board	-	-	-	4,268	4,288	1,939	1,926
Stone and Refiner	-	-	-	523	537	525	529
Defibrated and Exploded (1)	1,220	1,270	1,358	1,320	1,251	1,414	1,397
Screenings	137	100	97	84	78	71	65
MARKET PULP							
Total All Grades	-	-	5,557	5,412	5,407	5,467	5,746
Dissolving	-	-	1,636	1,488	1,421	1,611	1,573
Chemical Paper Grades	-	-	3,921	3,924	3,986	3,856	4,069
Sulphate	-	-	3,431	3,430	3,411	3,444	3,760
Bleached & Semi-Bleached	-	-	3,240	3,218	3,194	3,280	3,653
Unbleached	-	-	191	212	218	164	107
Sulphite	-	-	471	460	459	301	309
All Other	-	-	19	34	116	111	104

		1972	1973	1974	1975	1976	1977	1978
-	No Data Available							
(1)	Excludes defibrated and exploded wood pulp for hard pressed board as follows:	1,971	2,215	2,300	2,425	2,500	2,500	N.A.
(2)	Includes refiner groundwood							

TABLE XII (Cont.)

WOOD PULP CAPACITY

1972 - 1984

(Thousands of Tons)

	1979	1980	1981F	1982F	1983F	1984F
TOTAL ALL GRADES	53,636	55,214	57,010	58,470	59,603	60,303
Dissolving and Special Alpha	1,551	1,590	1,590	1,590	1,590	1,590
Chemical Paper Grades	40,897	41,893	43,172	44,092	44,733	45,148
Sulphite, Paper Grades Total	2,004	1,909	1,898	1,905	1,911	1,946
Bleached	1,595	1,512	1,513	1,521	1,526	1,561
Unbleached	409	397	385	385	385	385
Sulphate and Soda Total	38,893	39,983	41,274	42,187	42,822	43,202
Bleached - Total	18,869	19,695	19,999	20,491	20,704	21,195
Hardwood	8,072	8,356	8,350	8,683	8,839	9,001
Softwood	10,897	11,339	11,649	11,843	12,031	12,194
Semi-Bleached Total	(3)	(3)	(3)	(3)	(3)	(3)
Hardwood						
Softwood						
Unbleached	19,923	20,288	21,095	21,661	21,952	22,007
Semichemical Total	4,553	4,601	4,665	4,826	5,160	5,228
Bleached	336	384	390	390	390	390
Unbleached	4,217	4,217	4,275	4,436	4,770	4,838
Mechanical Total (Groundwood)	6,572	7,069	7,513	7,890	8,049	8,266
For Paper and Board	4,573	5,070	5,482	5,870	6,029	6,246
Stone Groundwood	3,255	3,212	3,270	3,361	3,363	3,366
Refiner	507	486	489	513	546	543
Thermo-Mechanical	811	1,371	1,723	1,996	2,119	2,337
For Other Paper and Board	1,999	1,999	2,031	2,020	2,020	2,020
Stone and Refiner	594	647	685	688	688	688
Defibrated and Exploded (1)	1,406	1,352	1,346	1,333	1,333	1,333
Screenings	63	61	70	71	71	71
MARKET PULP						
Total All Grades	6,334	6,801	6,972	7,022	7,110	7,029
Dissolving	1,551	1,576	1,563	1,563	1,563	1,563
Chemical Paper Grades	4,632	5,129	5,398	5,449	5,537	5,456
Sulphate	4,332	4,761	5,035	5,143	5,231	5,150
Bleached and Semi-Bleached	4,228	4,589	4,860	4,990	5,086	5,004
Unbleached	104	172	175	153	146	146
Sulphite	350	369	363	305	305	305
All Other	101	96	17	10	10	10

F - Forecast
(3) Included with bleached sulphate wood pulp.

TABLE XIII

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1976 - 1981

	1976		1977		1978	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	10,975,432	3,260,982	11,388,320	3,527,212	13,155,023	3,977,336
WOOD PULP, ALL GRADES, TOTAL	3,727,165	1,197,746	3,864,333	1,176,867	4,024,156	1,086,348
Dissolving and Special Alpha	190,801	61,891	180,270	55,988	188,714	56,173
Sulphite, Paper Grades, Total	435,512	129,810	510,263	150,515	484,455	137,433
Bleached	359,634	110,417	453,553	135,778	417,002	120,810
Unbleached	75,878	19,393	56,710	14,737	67,453	16,623
Sulphate, Paper Grades, Total	2,919,309	975,048	2,970,264	935,608	3,143,221	853,073
Bleached	2,558,269	861,021	2,587,686	826,568	2,813,033	769,668
Semi-Bleached	112,313	36,336	137,936	43,133	130,335	34,865
Unbleached	248,727	77,691	244,642	65,907	199,853	48,540
Soda	749	264	928	272	**	**
Groundwood	156,817	23,823	154,538	26,897	161,594	28,362
Other*	23,977	6,910	48,070	7,585	46,172	11,306
WASTE PAPER	106,444	10,104	91,680	9,100	17,783	1,294
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	7,141,823	2,019,267	7,432,307	2,296,869	9,113,084	2,813,639
PAPER, PAPERBOARD AND OTHER, TOTAL	7,079,675	1,919,532	7,348,464	2,174,577	9,023,644	2,639,761
PAPER, TOTAL	6,966,448	1,894,085	7,181,471#	2,138,744	8,591,591	2,562,381
Newsprint	6,569,345	1,741,549	6,558,967	1,884,121	7,483,720	2,111,649
Total Printing & Writing Paper	339,652	127,440	539,440	221,779	958,128	385,315
Groundwood, Uncoated	141,784	43,716	178,119	61,735	521,603	177,009
Coated and Impregnated Paper	Included in Products		111,678	51,193	213,658	109,203
Book, Uncoated	181,667	57,970	228,467	79,448	203,204	93,028
Uncoated Free Sheet	186,059	66,651	236,579	90,072	214,943	78,744
Writing Papers	3,511	6,769	7,255	8,448	10,785	11,791
Other Fine Paper	881	1,912	857	2,176	7,307	2,493
Thin Paper	11,183	16,669	12,573	18,455	954	5,648
Bristols	626	404	491	324	618	427
Packaging & Industrial Paper, Total	57,446	25,087	83,027	32,814	137,824	59,051
Unbleached Kraft	28,966	8,832	29,823	8,911	64,623	19,292
Other Packaging & Converting	23,364	11,240	48,853	19,602	67,131	33,282
Glassine & Greaseproof	3,838	3,199	3,348	2,940	4,906	4,645
Vegetable Parchment	192	285	23	99	66	229
Special Industrial Paper	1,086	1,531	978	1,266	1,097	1,603
Tissue	5	9	37	28	11,919	6,366
PAPERBOARD, TOTAL	13,084	3,560	28,108	6,284	99,845	18,246
Test or Containerboard	4,306	771	14,793	2,502	31,860	5,186
Semichemical Corrugating	-	-	-	-	-	-
Other Paperboard	8,778	2,789	13,315	3,784	67,985	13,060
WET MACHINE BOARD	6,988	4,239	3,608##	1,719##	2,614	1,440
CONSTRUCTION PAPER & BOARD, TOTAL	93,155	17,648	135,274	27,830	329,594	57,694
Building Paper	74,149	14,630	92,273	20,497	271,872	47,018
Insulating and Other Building Board	19,006	3,020	43,000	7,332	57,723	10,676
PAPER AND PAPERBOARD PRODUCTS, TOTAL	62,148	99,735	83,844#	122,292*	89,440	173,878
PAPER PRODUCTS, TOTAL	60,086	95,983	82,054#	117,883*	83,043	162,788
Printing & Book Paper	11,536	33,843	12,787	40,283	15,544	56,123
Writing & Related Paper	28,227	27,169	33,582#	32,746	58,406	95,561
Special Industrial Paper	11,566	29,959	10,936	30,719	6,690	8,928
Tissue Paper	8,756	5,011	24,749	14,135	2,403	2,176
PAPERBOARD PRODUCTS, TOTAL	2,061	3,752	1,790	4,408	6,397	11,090
Hard Pressed Board (Not in totals)	168,935	22,683	210,581	29,889	295,729	40,716

* Includes Mixtures and Screenings

** Included with Sulphate Pulp Imports

# Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products

## Excludes Imports of Leatherboard from 1977 on, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

1976	1977	1978
$33,865	$44,376	$76,054

TABLE XIII (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1976 - 1981

	1979		1980		1981	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	13,519,117	4,767,233	12,918,160	5,200,885	12,504,912	5,559,228
WOOD PULP, ALL GRADES, TOTAL	4,317,522	1,465,169	4,050,919	1,683,655	4,086,698	1,764,287
Dissolving and Special Alpha	193,114	67,993	262,747	110,202	248,565	105,179
Sulphite, Paper Grades, Total	592,876	206,243	426,745	177,953	442,422	197,695
Bleached	480,609	171,802	317,468	138,825	352,262	162,189
Unbleached	112,267	34,441	109,277	39,127	90,160	35,506
Sulphate, Paper Grades, Total	3,330,202	1,142,638	3,188,092	1,351,402	3,212,878	1,413,170
Bleached	3,011,959	1,042,501	2,904,205	1,239,720	2,904,531	1,285,810
Semi-Bleached	150,196	50,448	140,342	58,245	142,727	62,094
Unbleached	168,047	49,689	143,545	53,437	165,620	65,266
Soda	**	**	**	**	**	**
Groundwood	162,509	35,601	148,499	33,849	158,606	37,422
Other *	38,821	12,694	24,836	10,249	24,227	10,821
WASTE PAPER	78,395	11,189	87,064	17,188	79,064	13,405
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	9,123,200	3,208,026	8,780,177	3,417,904	8,339,150	3,672,492
PAPER, PAPERBOARD AND OTHER,TOTAL	9,027,147	2,984,897	8,686,416	3,172,997	8,244,942	3,361,887
PAPER, TOTAL	8,559,716	2,896,107	8,113,036	3,063,633	7,716,284	3,247,846
Newsprint	7,222,701	2,300,450	7,279,349	2,637,857	6,977,118	2,824,777
Total Printing and Writing Paper	1,178,507	511,724	739,678	363,266	638,538	347,117
Groundwood, Uncoated	804,596	295,996	487,973	204,873	458,915	219,697
Coated and Impregnated Paper	188,846	108,590	114,927	68,868	39,321	28,765
Uncoated Free Sheet	167,894	93,838	129,380	80,604	127,377	80,352
Book, Uncoated	142,674	69,291	115,528	62,466	114,422	64,874
Writing Papers	25,220	24,547	13,852	18,138	12,955	15,478
Thin Paper	14,294	12,057	6,321	8,182	12,015	17,647
Other Fine Paper	-	-	-	-	-	-
Bristols	2,247	1,243	1,077	739	910	656
Packaging & Industrial Paper, Total	141,196	74,211	89,893	60,043	93,588	71,124
Unbleached Kraft	66,816	24,551	33,889	14,293	32,532	14,870
Other Packaging & Converting	65,556	39,295	50,443	36,307	52,724	41,615
Glassine & Greaseproof	5,475	5,614	3,679	5,654	4,797	7,929
Vegetable Parchment	67	226	62	248	44	232
Special Industrial Paper	3,282	4,525	1,819	3,542	3,491	6,478
Tissue Paper	17,312	9,722	4,116	2,467	7,040	4,830
PAPERBOARD, TOTAL	82,203	19,111	97,583	25,576	130,478	34,518
Test or Containerboard	25,725	6,021	43,472	11,340	48,169	12,071
Semichemical Corrugating	33,494	5,889	31,349	6,156	52,476	11,695
Other Paperboard	22,984	7,201	22,762	8,080	29,832	10,751
WET MACHINE BOARD	2,345	1,341	2,118	1,395	1,684	1,185
CONSTRUCTION PAPER & BOARD, TOTAL	382,883	68,338	473,679	82,393	396,496	78,338
Building Paper	330,147	56,768	435,666	73,238	355,284	65,927
Insulating and Other Building Board	52,736	11,570	38,013	9,155	41,212	12,411
PAPER AND PAPERBOARD PRODUCTS, TOTAL	96,053	223,129	93,761	244,907	94,208	310,605
PAPER PRODUCTS, TOTAL	90,246	211,682	84,146	232,412	86,676	294,479
Printing & Book Paper	17,425	69,385	19,377	80,902	21,635	96,180
Writing & Related Paper	49,708	78,857	55,780	136,334	53,885	177,048
Packaging & Special Industrial Paper	19,657	59,180	5,792	10,368	8,109	16,152
Tissue Paper	3,456	4,260	3,197	4,808	3,047	5,098
PAPERBOARD PRODUCTS, TOTAL	5,807	11,447	9,615	12,494	7,531	16,126
Hard Pressed Board (Not in totals)	262,229	39,607	172,023	32,713	189,466	42,095

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
# Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.
## Excludes imports of Leatherboard, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	1979 $ 000	1980 $ 000	1981 $ 000
	$82,849	$82,138	$109,042

TABLE XIV
EXPORTS
1976 - 1981
WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1976		1977		1978	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	7,314,527	2,600,847	7,454,619	2,542,305	7,659,629	2,578,949
WOOD PULP ALL GRADES, TOTAL	2,517,566	844,429	2,640,052	875,027	2,598,952	817,102
Dissolving and Special Alpha	730,254	288,759	795,709	316,488	757,486	304,841
Sulphite, Paper Grades, Total	193,690	62,039	200,722	60,051	210,479	63,154
Bleached	181,276	58,432	192,455	57,983	190,380	58,971
Unbleached	12,414	3,607	8,267	2,069	20,099	4,183
Sulphate, Paper Grades, Total	1,519,731	472,035	1,562,381	478,895	1,568,720	436,320
Bleached	1,301,183	424,816	1,293,954	410,569	1,400,209	394,434
Semi-Bleached	105,153	25,787	164,166	49,062	92,969	26,876
Unbleached	113,395	21,432	104,261	19,264	75,542	15,010
Mechanical, Semi-Chemical & Other	73,891	21,596	81,240	19,591	62,267	12,787
COTTON PULP & OTHER FIBER	69,554	36,202	72,584	39,202	88,481	47,987
WASTE PAPER	1,272,736	116,154	1,512,417	132,798	1,599,449	145,884
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	3,454,671	1,499,683	3,229,566	1,393,749	3,372,747	1,560,453
PAPER, PAPERBOARD AND OTHER, TOTAL	3,128,828	1,234,962	2,893,712	1,106,227	2,895,733	1,108,083
PAPER, TOTAL	928,421	596,215	715,607	490,950	542,676	415,574
Newsprint	126,519	41,237	128,674	42,544	82,454	29,947
Uncoated Groundwood	70,616	38,817	54,087	30,597	58,109	37,154
Coated Printing and Converting Paper	106,671	76,847	99,005	76,935	73,592	54,358
Coated Groundwood	36,567	23,689	39,839	26,656	33,758	21,294
Coated Book	70,104	53,158	59,166	50,279	39,834	33,064
Uncoated Free Sheet	42,062	27,601	26,466	19,196	84,896 1/	66,185 1/
Writing and Related Papers, Total	206,192	199,314	156,161	146,688		
Writing Paper	103,877	63,782	80,345	51,974	1/	1/
Cigarette (See also Products)	3,140	4,673	1,783	2,346	26,544 2/	29,953 2/
Other Writing and Related Papers	99,175	130,859	74,033	92,368	12,216 3/	13,366 3/
Bristols					10,740	7,784
Unbleached Kraft Packaging & Industrial Conv. Papers, Total	218,973	74,740	115,233	44,751	45,442	17,440
Unbleached Kraft exc. Shipping Sack	73,617	28,204	48,311	18,837	25,030	10,725
Shipping Sack Paper	63,022	17,573	39,295	11,735	20,412	6,714
Kraft Paper & Papbd. Uncoated, n.e.c.	82,335	28,963	27,627	14,179	-	-
Glassine, Greaseproof & Veg. Parchment	10,661	7,875	5,383	4,342	7,865	6,550
Other Pkg. & Industrial Conv. Papers	25,183	16,860	20,708	13,710	35,613	22,915
Special Industrial Paper, Total	101,798	99,518	94,053	101,558	84,075	112,108
Special Industrial	82,646	75,593	75,445	77,521	74,019	94,306
Absorbent Papers	19,153	23,926	18,608	24,036	10,056	17,802
Tissue Paper, Total	19,746	13,406	15,837	10,629	21,130	17,814
Sanitary Tissue	17,509	10,972	13,354	7,975	N.A.	N.A.
Other Tissue	2,237	2,434	2,483	2,653	N.A.	N.A.
PAPERBOARD TOTAL	2,133,584	613,740	2,119,784	592,264	2,281,653	662,216
Kraft Linerboard	1,419,361	340,724	1,428,038	317,575	1,539,510	344,110
Other Kraft Paperboard	N.A.	N.A.	N.A.	N.A.	65,833	22,300
Corrugating Medium	55,275	10,664	48,501	7,714	32,051 c/	5,724
Bleached Pkg. Paperboard, Total	352,638	147,184	374,823	160,090	440,724 d/	204,423
Special Food Board	90,858	35,761	82,383	33,628	86,950	36,995
Special Food Board Impregnated or Coated	199,162	86,357	239,136	103,357	353,774 d/	167,428
Kraft Paperboard, n.e.c.(a)	62,618	25,066	53,304	23,106	N.A.	N.A.
Recycled Furnish Paperboard, Total	306,310	115,168	268,422	106,885	203,535	85,611
Boxboard & Related Boards	109,229	41,892	107,372	44,742	109,102	49,542
Special Paperboard	144,166	50,785	113,581	41,919	60,794	26,629
Containerboard	52,915	22,491	47,469	20,224	33,639	9,440
WET MACHINE BOARD	6,617	4,478	8,051	4,855	7,554	4,805
CONSTRUCTION PAPER & BOARD, TOTAL	60,206	20,528	50,270	18,158	63,850	25,485
Building Paper	29,527	8,868	16,328	6,355	37,166	13,220
Insulating Board	30,679	11,660	33,942	11,807	26,684	12,265
PAPER AND PAPERBOARD PRODUCTS, TOTAL	325,843	264,721	335,854	287,522	477,014	452,373
PAPER PRODUCTS, TOTAL	168,153	183,397	169,198	199,485	274,884	326,728
Cig. Paper Cut to Size, Books, etc.	16,584	27,213	19,526	32,576	21,919	37,416
PAPERBOARD PRODUCTS, TOTAL	157,690	81,324	165,659	88,037	202,130	125,645
Hard Pressed Board (Not in Totals)	65,735	20,361	59,203	21,329	25,571	8,541

NOTE: Grade structure revised in 1978. 1/ Uncoated free sheet 2/ Total thin papers excluding cigarette
3/ Cotton fiber papers only

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

$104,379 $101,530 $7,253

TABLE XIV (Cont.)

EXPORTS

1976 - 1981

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1979		1980		1981	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	8,971,709	3,358,211	11,832,242	4,849,934	10,663,148	4,917,049
WOOD PULP ALL GRADES, TOTAL	2,934,815	1,103,783	3,805,549	1,652,099	3,677,635	1,661,311
Dissolving and Special Alpha	764,466	343,076	768,975	393,384	783,848	419,324
Sulphite, Paper Grades, Total	256,880	94,968	348,097	154,199	284,316	122,236
Bleached	218,950	84,696	322,212	146,084	271,952	118,465
Unbleached	37,930	10,272	25,885	8,115	12,364	3,771
Sulphate, Paper Grades, Total	1,843,213	647,535	2,607,738	1,078,233	2,585,476	1,111,599
Bleached	1,632,320	583,516	2,402,619	1,010,204	2,417,882	1,051,557
Semi-Bleached	106,874	33,807	92,121	27,994	66,443	24,956
Unbleached	104,019	30,212	112,996	40,035	101,151	35,086
Mechanical, Semi-Chemical & Other	70,256	18,204	80,741	26,283	23,995	8,151
COTTON PULP & OTHER FIBER	131,444	74,579	148,485	92,607	131,910	85,195
WASTE PAPER	2,233,246	256,107	2,664,272	322,195	2,212,549	268,526
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	3,672,203	1,913,940	5,213,936	2,772,733	4,641,054	2,890,782
PAPER, PAPERBOARD AND OTHER, TOTAL	3,109,859	1,328,320	4,581,878	2,052,406	4,033,988	2,079,937
PAPER, TOTAL	600,876	507,568	907,447	737,363	1,008,409	846,775
Newsprint	71,456	32,046	174,869	86,403	270,460	139,702
Uncoated Groundwood	80,392	55,384	100,951	71,716	119,673	91,966
Coated Printing & Converting Paper	73,521	57,743	92,351	75,160	88,597	78,328
Coated Groundwood	38,384	27,690	44,503	35,783	46,398	38,263
Coated Book	35,137	30,054	47,848	39,377	42,199	40,065
Uncoated Free Sheet	68,159	64,146	88,313	94,826	116,752	119,592
Thin (Exc. Cigarette)	32,357	36,741	33,835	42,036	42,717	46,573
Cotton Fiber	10,937	12,685	16,608	16,387	9,221	13,118
Bristols	9,242	6,671	8,801	5,975	6,357	5,031
Unbleached Kraft Packaging & Industrial Conv. Papers, Total	63,695	27,079	142,825	61,346	110,801	50,980
Unbleached Kraft exc. Shipping Sack	35,705	16,651	77,154	36,172	69,328	34,107
Shipping Sack Paper	27,990	10,428	65,671	25,174	41,473	16,873
Glassine, Greaseproof & Veg. Parchment	7,702	7,761	8,490	9,751	8,818	10,475
Other Pkg. & Ind. Conv. Papers	32,385	22,935	37,211	27,920	46,922	34,523
Special Industrial Paper, Total	123,125	160,441R	142,254	192,324	136,346	208,644
Special Industrial	110,557	135,864	129,566	165,754	124,128	179,793
Absorbent Papers	12,568	24,577R	12,688	26,570	12,218	28,851
Tissue Paper, Total	27,905	23,934	60,939	53,521	51,745	47,842
Sanitary Tissue	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other Tissue	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PAPERBOARD TOTAL	2,446,972	789,902	3,608,752	1,283,130	2,945,935	1,195,528
Kraft Linerboard (a)	1,644,901	434,515	2,527,245	790,070	1,973,487	660,285
Other Kraft Paperboard (Unbleached)	100,301	33,739	163,825	60,633	148,855	63,341
Corrugating Medium	17,358	5,208	62,884	17,264	65,821	19,588
Bleached Packaging Paperboard, Total	508,601	238,813	606,044	314,751	584,250	367,530
Special Food Board	59,248	26,355	20,630	10,932	21,922	13,322
Special Food Board Impregnated or Coated	416,649	198,879d	559,895	290,655	531,904	335,240
Kraft Paperboard, n.e.c. (b)	32,704	13,579	25,519	13,164	30,424	18,968
Recycled Furnish Paperboard, Total	175,811	77,626	248,754	100,412	173,522	84,784
Boxboard & Related Boards	70,652	32,260	101,186	42,470	69,939	32,313
Special Paperboard	67,768	33,918	63,210	35,413	53,760	36,219
Containerboard	37,391	11,448	84,358	22,528	49,823	16,252
WET MACHINE BOARD	7,371	5,146	8,017	5,258	10,812	7,039
CONSTRUCTION PAPER & BOARD, TOTAL	54,642	25,704	57,662	26,655	68,832	30,595
Building Paper	34,020	14,420	31,436	13,299	22,690	12,364
Insulating Board	20,623	11,284	26,226	13,356	46,142	18,231
PAPER AND PAPERBOARD PRODUCTS, TOTAL	562,343	585,620	632,058	720,328	607,066	810,845
PAPER PRODUCTS, TOTAL	332,407	427,080	378,581	523,511	362,337	580,602
Cig. Paper Cut to Size, Books, etc.	25,143	45,947	25,141	49,308	20,120	47,335
PAPERBOARD PRODUCTS, TOTAL	229,936	158,540	253,477	196,817	244,729	230,243
Hard Pressed Board (Not in Totals)	32,030	11,223	28,900	10,705	61,046	19,111

(a) - Contains Bleached Kraft Linerboard reported as follows:(Tons) 1972 - 150,484; 1973 - 69,929; 1974 - 133,682; 1975 - 149,483; 1976 - 131,524; 1977 - 130,545; 1978 - 194,422; 1979 - 179,995; 1980 - 233,924; 1981 - 151,983

(b) - Contains some Bristols and Other Paperboard. (c) Excludes Recycled Corrugating Medium: 9,503 tons.

(d) - Includes Bleached Folding Boxboard - Not Reported Separately.

* Not comparable to prior years

NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000) $9,803 $10,300 $11,235

TABLE XV

VALUE OF SHIPMENTS OF PRODUCT CLASSES

1976 - 1980

(Millions of Dollars)

SIC CODE		1976	1977	1978	1979	1980
26	**PAPER AND ALLIED PRODUCTS (1)**	$46,322.1	$50,356.5	$55,065.6	$62,662.7	$70,049.0
2611-	Pulp	2,521.4	2,466.4	2,499.5	3,077.2	3,891.9
26111	Special Alpha and Dissolving Woodpulp	562.2	570.5	550.7	621.9	881.3
26112	Other Pulp, Including Byproducts, Exc. Tall Oil	1,957.6	1,894.8	1,948.4	2,450.6	3,004.4
26110	Pulp, N.S.K	1.6	1.1	0.4	4.7	6.2
2621-	Papermill Products, except Building Paper	11,361.6	12,438.2	13,535.7	15,784.3	17,710.7
26211	Newsprint	898.5	989.3	1,039.8	1,226.1	1.683.9
26212	Groundwood Paper, Uncoated	480.4	539.0	593.9	722.7	741.4
26213	Clay Coated Printing and Converting Paper	1,953.2	2,260.9	2,572.1	2,824.9	3,160.3
26214	Book Paper, Uncoated (76); Unc. Free Sheet (77)	1,358.4	3,352.7*	3,761.5*	4,665.8*	5,442.9*
26215	Bleached Bristols (Exc. Cotton Fiber)	415.4	474.3	504.4	502.1	494.0
26216	Writing and Related Papers	2,217.4	*	*	*	*
26216	Cotton Fiber Paper and Thin Paper (77)		496.1	536.4	645.3	676.6
26217	Unbleached Kraft Packaging & Ind. Converting Paper	1,040.5	1,098.7	1,137.7	1,243.9	1,438.6
26218	Packaging and Ind. Conv. Paper, Exc. Unbl. Kraft	519.4	560.6	626.8	759.8	719.5
26219	Special Industrial Paper	464.3	550.7	522.6	575.3	544.1
26210	Tissue Paper, and Papermill Products, N.S.K	2,014.1	2,115.9	2,240.6	2,618.3	2,809.3
2631-	Paperboard Mill Products	6,207.5	6,434.7	6,988.8	8,026.9	9,062.8
26311	Unbleached Kraft Packaging & Ind. Conv. Paperboard	2,635.1	2,697.2	2,939.2	3,542.1	4,069.7
26312	Bleached Packaging & Ind. Converting Paperboard	1,330.9	1,364.6	1,530.1	1,566.5	1,780.9
26313	Semichemical Paperboard	751.9	748.9	784.3	967.1	1,069.1
26314	Recycled Paperboard	1,379.3	1,562.7	1,668.2	1,863.3	2,053.7
26318	Wet Machine Board	77.6	59.3	63.6	70.4	64.2
26310	Paperboard Mill Products, N.S.K	32.7	2.0	(S)	17.4	25.3
2641-	Coated and Glazed Paper	2,653.0	3,043.2	3,320.2	3,832.1	4,302.4
26411	Printing Paper Coated at Estab. not making Paper	174.7	172.0	217.7	233.6	229.2
26412	Oiled, Waxed and Wax-Laminated Paper	242.8	256.3	257.6	255.5	350.4
26413	Gummed Products	167.5	187.6	199.2	229.6	259.7
26414	Pressure Sensitive Tape and Labels (Unprinted)	889.7	1,177.7	1,305.1	1,502.7	1,649.5
26417	Laminated, Coated Rolls, Sheets, for Pkg. Uses	601.5	697.1	831.6	927.2	1,060.5
26418	Other Coated Processed Paper, Except Pkg. & Waxed	570.6	421.1	425.7	574.6	632.1
26410	Coated and Glazed, N.S.K	(6.2)	131.3	(S)	108.8	116.8
26420	Envelopes(Excluding Stationary Envelopes)	842.8	980.6	1,140.4	1,288.8	1,460.7
2643-	Bags, Except Textile Bags	3,248.1	3,304.1	3,819.1	4,200.4	4,621.0
26431	Grocers' & Variety Bags and Shopping Bags	814.7	801.6	912.9	985.2	1,129.3
26432	Specialty Bags and Liners	1,602.5	1,615.7	1,874.7	2,390.9	2,689.8
26433	Shipping Sacks and Multiwall Bags	663.2	672.6	714.0	781.6	760.2
26430	Bags, Except Textile Bags, N.S.K	(167.8)	214.3	(S)	(S)	(S)
2645-	Die-Cut Paper and Board	983.2	1,034.3	1,156.4	1,213.9	1,394.5
26451	Office Supplies and Misc. Products	513.2	484.9	517.3	671.5	745.3
26452	Pasted, Lined, Laminated, or Coated Paperboard	446.6	438.4	474.8	465.6	(529.9)
26450	Die-Cut Paper and Board, N.S.K	(23.4)	111.0	163.4	(76.8)	119.3
2646-	Pressed and Molded Pulp Goods	218.9	239.6	221.6	216.7	209.2
26461	Bituminous Fiber Pipe,	(D)	(D)	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	(208.4)	225.9	209.5	207.8	(200.5)
26460	Pressed and Molded Pulp Goods, N.S.K	(D)	(D)	(D)	(D)	(D)
2647-	Sanitary Paper Products	4,186.7	4,562.6	5,105.5	6,163.9	7,043.4
26471	Sanitary Napkins and Tampons	445.6	588.7	581.0	660.4	775.8
26472	Sanitary Tissue Health Products	3,720.3	3,948.3	4,475.2	5,420.3	6,283.8
26470	Sanitary Paper Products, N.S.K	20.8	25.6	(S)	83.2	-
2648-	Stationery Products	509.9	630.5	717.7	751.5	840.8
26481	Stationery	129.9	141.2	171.1	190.0	235.4
26482	Tablets and Related Products	371.8	425.5	463.7	497.7	535.6
26480	Stationery Products, N.S.K	(8.2)	63.8	(S)	63.8	69.8
2649-	Converted Paper Products N.E.C	1,267.4	1,748.8	1,808.7	2,103.9	2,255.1
26492	Wrapping Products (Gift Wrap, etc.)	(271.2)	251.5	267.4	344.1	360.0
26493	Wallcoverings	(207.2)	306.5	287.8	325.5	361.1
26495	Other Converted Paper and Board Products	783.2	948.1	1,032.9	1,199.4	1,233.8
2649	Converted Paper Products, N.E.C, N.S.K	(5.8)	242.7	(S)	234.9	(300.1)
26510	Bending Paperboard Packaging and Pkg. Components	2,162.3	2,393.4	2,667.4	2,797.7	3,152.9
26520	Setup Paperboard Boxes	405.7	377.7	417.0	(408.1)	447.1
26530	Corrugated and Solid Fiber Boxes, Inc. Pallets	6,530.2	7,182.8	7,893.9	8,686.9	9,363.5
2654-	Sanitary Food Containers	1,743.9	1,964.9	2,065.6	2,251.7	2,392.5
26541	Milk and Other Beverage Cartons (Paperboard)	472.6	480.0	465.9	489.5	502.7
26542	Cups and Liquid-Tight Containers (Paperboard)	601.6	594.1	632.5	724.9	779.3
26543	Other Sanitary Food Containers, Boards, and Trays	662.0	842.2	917.2	1,034.8	1,108.0
26540	Sanitary Food Containers, (Paperboard) N.S.K	(7.7)	48.6	(S)	(S)	(S)
2655-	Fiber Cans, Drums, and Similar Products	1,000.1	1,040.4	1,143.7	1,295.1	1,382.7
26551	Paperboard Fiber Drums	212.6	223.8	234.3	299.8	282.6
26552	Fiber Cans, Tubes, and Similar Fiber Products	760.9	782.6	875.8	956.3	1,058.8
26550	Fiber Cans, Drums and Similar Products, N.S.K	26.6	34.0	(S)	(38.9)	(41.3)
2661-	Building Paper and Board	479.4	514.3	564.4	563.6	517.8
26611	Insulating Board	205.2	222.2	238.8	231.7	211.3
26612	Construction Paper	262.6	291.8	325.3	313.2	281.6
26610	Building Paper and Board, N.S.K	(11.6)	0.3	0.3	(18.7)	(24.9)

SOURCE: 1980 Survey of Manufactures - Bureau of Census
* - Uncoated Free Sheet = Uncoated Book plus Writing and Related
N.S.K. - Not Specified by Kind N.E.C. - Not Elsewhere Classified ( ) - Largely Estimated

(1) Sum of reported data
(D) Data witheld to avoid disclosure
(S) Not up to statistical standard

SECTION II

REGIONAL DATA

Table XVI presents regional data for 1979 and 1980 on the production of wood pulp, paper and paperboard, and consumption of pulpwood as published by the Bureau of Census. These data include production of wet machine board, construction paper, insulating board and hard pressed board. (Note that the API data on paper and paperboard production shown in Tables I and X do not include hard pressed board.)

Table XVII presents state data on paper and paperboard capacity and total wood pulp capacity compiled from API's Capacity Survey published in December 1981. The paper and paperboard capacity totals include paper, paperboard, wet machine board, construction paper and insulating board. The wood pulp data include dissolving, sulphite, sulphate and mechanical wood pulp grades. However, only that part of the defibrated and exploded pulps used in the manufacture of paper and paperboard is included. Defibrated and exploded wood pulp capacity used in the manufacture of hard pressed board is not included in these totals.

Table XVIII presents state data on various aspects of the paper industry for the year 1978 as published in the 1978 Survey of Manufactures by the Bureau of Census. The Bureau of Census informs us that it has not compiled the data for 1979 and 1980 because of a lack of funds.

TABLE XVI

STATE DATA - 1979

(000 Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION (R)	PAPER AND PAPERBOARD PRODUCTION				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	77,361,518	51,176,737	66,607,595	30,011,834	30,935,763	144,088	5,515,910
Northeast	6,748,496	4,296,698	11,158,219	7,750,009	2,336,645	97,018	974,547
New England	4,291,004	2,773,329	5,123,429	4,146,280	793,564	29,632	153,953
Maine	3,729,636	2,329,492	2,970,068	2,906,053	(D)	(D)	(D)
New Hampshire	(D)	(D)	592,776	352,587	(D)	(D)	-
Massachusetts	-	-	929,329	642,708	271,826	(D)	(D)
Vermont	(D)	(D)	237,308		(D)	-	(D)
Rhode Island	(D)	(D)		244,932	-	-	(D)
Connecticut	(D)	(D)	393,948		260,352	(D)	(D)
Middle Atlantic	2,457,492	1,523,369	6,034,790	3,603,729	1,543,081	67,386	820,594
New York	316,791S	558,481	2,195,535	1,727,469	359,417	-	108,649
New Jersey	49,659S	68,330	1,271,181	380,217	565,494	(D)	(D)
Pennsylvania	1,650,815	896,558	2,568,074	1,496,043	618,170	(D)	(D)
North Central	5,727,583	4,371,913	12,792,363	6,984,379	4,407,393	(D)	(D)
East North Central	4,540,791	3,285,967	10,713,896	6,044,142	(D)	(D)	683,597
Ohio	(D)	466,477	2,156,258	944,018	1,143,590	-	68,650
Indiana	(D)	(D)	616,623	(D)	560,834	-	(D)
Illinois	65,568H	(D)	1,040,633	(D)	489,608	(D)	(D)
Michigan	868,054H	955,295	2,538,189	1,290,429	(D)	-	(D)
Wisconsin	2,639,960	1,710,580	4,362,193	3,593,926	(D)	-	(D)
West North Central	1,186,792	1,085,946	2,078,467	940,237	(D)	-	(D)
Minnesota	745,380H	926,479	1,676,632	(D)	(D)	-	(D)
Iowa	(D)	(D)	142,766	-	(D)	-	(D)
Missouri	(D)	(D)	175,462	(D)	(D)	-	(D)
Kansas	-	-	83,607	-	(D)	-	(D)
South	49,847,070	33,935,334	33,215,550	11,176,008	19,610,525	(D)	(D)
South Atlantic	24,425,710	16,462,339	15,820,916	4,168,204	10,689,498	(D)	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	529,120	(D)	(D)	-	(D)
Virginia	1,523,472H	2,093,773	2,549,453	(D)	1,761,207	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,523,891	(D)	2,344,215	(D)	1,110,312	-	(D)
South Carolina	3,636,081	2,535,165	2,368,098	(D)	1,836,010	-	(D)
Georgia	8,531,116	5,541,656	5,315,641	1,097,523	3,855,956	-	362,162
Florida	4,684,006S	3,427,175	2,616,747	(D)	1,929,328	-	(D)
East South Central	12,385,731	8,972,384	8,408,931	3,157,653	4,465,730	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	433,165H	(D)	1,816,406	(D)	916,447	(D)	61,205
Alabama	6,657,294	4,503,184	4,383,994	1,900,188	(D)	-	(D)
Mississippi	1,977,325	2,385,161	(D)	(D)	(D)	-	(D)
West South Central	13,035,629	8,680,611	8,985,703	3,850,151	4,455,297	-	680,255
Arkansas	627,267H	1,279,017	2,115,020	(D)	(D)	-	(D)
Louisiana	5,799,867	3,833,017	3,546,432	1,458,635	(D)	-	(D)
Oklahoma	(D)	(D)	1,018,891	-	(D)	-	(D)
Texas	3,814,463	(D)	2,305,360	(D)	774,301	-	(D)
West	15,038,369	8,572,792	9,441,463	4,101,438	4,581,200	-	758,825
Mountain	1,997,455	1,133,496	1,193,951	(D)	(D)	-	(D)
Montana	(D)	(D)	(D)	-	(D)	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	(D)	(D)	-	(D)
New Mexico	-	-	-	-	-	-	-
Arizona	(D)	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	13,040,914	7,439,296	8,247,512	(D)	(D)	-	752,136
Washington	6,061,790	3,313,177	2,781,355	1,727,557	(D)	-	(D)
Oregon	4,412,475S	2,390,755	3,337,365	1,496,711	1,444,830	-	395,824
California	1,563,692S	(D)	2,128,792	(D)	1,129,376	-	342,711
Alaska	558,277	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Report, Pulp, Paper and Board 1979
Series M26A (79)-13 U.S. Department of Commerce, Washington, D.C.

* - 128 Cu. Ft. roughwood basis
- - Represents zero
S - Softwood pulpwood only, excludes hardwood pulpwood   H - hardwood pulpwood only, excludes softwood pulpwood
(D) - Withheld by Commerce Department to avoid disclosure
1/ - Includes wood pulp production in Maryland   2/ Includes paper and paperboard production in West Virginia
3/ - Vermont paperboard production included in Maine-New Hampshire total

TABLE XVI (Cont.)

STATE DATA - 1980

(000 Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD PRODUCTION				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	79,703,387	52,054,694	65,834,278	30,163,713	31,143,186	137,649	4,389,730
Northeast	7,317,963	4,288,147	10,631,642	7,754,258	2,092,077	92,168	693,139
New England	4,352,086	2,759,191	5,171,432	4,243,238	789,324	16,044	122,826
Maine	3,749,200	2,293,331	3,281,771	3,230,038	(D)	-	(D)
New Hampshire	(D)	(D)	511,411	290,151	(D)	(D)	-
Vermont	(D)	(D)	(D)	(D)	(D)	-	(D)
Massachusetts	-	(D)	743,572	508,153	229,522	(D)	(D)
Rhode Island	(D)	-	(D)	-	-	-	(D)
Connecticut	-	(D)	358,178	(D)	284,853	(D)	(D)
Middle Atlantic	2,965,877	1,528,956	5,460,210	3,511,020	1,302,753	76,124	570,313
New York	334,466S	(D)	2,121,279	1,750,077	283,498	-	87,704
New Jersey	(D)	(D)	975,101	352,350	407,565	(D)	(D)
Pennsylvania	1,299,941H	919,053	2,363,830	1,408,593	611,690	(D)	(D)
North Central	5,714,547	4,307,239	11,656,086	6,526,079	4,086,178	(D)	(D)
East North Central	4,617,407	3,299,340	10,000,058	5,683,005	(D)	(D)	561,681
Ohio	17,696S	461,489	2,009,248	(D)	1,069,676	-	(D)
Indiana	(D) H	(D)	580,936	(D)	531,428	-	(D)
Illinois	74,179H	(D)	847,397	(D)	410,652	(D)	(D)
Michigan	952,475H	958,092	2,403,827	1,114,460	(D)	-	(D)
Wisconsin	2,703,874	1,749,560	4,158,650	3,490,981	(D)	-	(D)
West North Central	1,097,140	1,007,99[illegible]	1,656,028	843,074	(D)	-	(D)
Minnesota	682,394H	846,979	1,283,135	(D)	(D)	-	(D)
Iowa	(D) S	(D)	147,312	-	(D)	-	(D)
Missouri	(D)	(D)	156,424	(D)	(D)	-	(D)
Kansas	-	-	69,157	-	(D)	-	(D)
South	51,206,326	34,694,100	34,110,372	11,645,780	20,391,454	(D)	(D)
South Atlantic	24,959,917	16,875,635	16,200,321	4,533,968	10,986,756	(D)	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	529,627	(D)	114,950	-	(D)
Virginia	1,595,427H	2,134,933	2,792,219	(D)	1,764,420	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,715,211	(D)	2,286,601	(D)	1,068,084	-	(D)
South Carolina	3,499,614	2,474,917	2,438,262	(D)	1,927,664	-	(D)
Georgia	8,617,681	5,644,026	5,375,756	1,212,766	4,010,488	-	152,502
Florida	4,835,671H	3,577,682	2,687,710	(D)	2,027,398	-	(D)
East South Central	12,741,478	8,993,581	8,657,155	3,191,421	4,556,954	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	485,583H	(D)	2,191,594	(D)	1,005,515	(D)	185,549
Alabama	6,781,672	4,583,003	4,312,219	1,806,199	(D)	-	(D)
Mississippi	2,010,368S	2,269,397	(D)	(D)	(D)	-	(D)
West South Central	13,504,931	8,824,884	9,252,896	3,920,91	4,847,744	-	484,761
Arkansas	1,153,499H	1,337,324	2,216,866	(D)	(D)	-	(D)
Louisiana	5,862,442	3,866,697	3,767,349	1,513,111	(D)	-	(D)
Oklahoma	(D)	(D)	866,905	-	(D)	-	(D)
Texas	3,198,542S	(D)	2,401,776	(D)	959,907	-	(D)
West	15,464,551	8,765,108	9,436,178	4,237,596	4,573,477	-	625,105
Mountain	1,909,075	1,142,124	1,220,076	(D)	(D)	-	(D)
Montana	(D) S	(D)	(D)	-	(D)	-	(D)
Idaho	(D) S	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	(D)	(D)	-	(D)
New Mexico	-	-	-	-	-	-	-
Arizona	(D) S	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	2,631,444	7,622,984	8,216,102	(D)	(D)	-	620,284
Washington	1,331,959	3,426,339	2,894,859	2,000,243	(D)	-	(D)
Oregon	4,186,212S	2,979,968	3,323,310	1,458,409	1,538,048	-	326,853
California	(D)	(D)	1,997,933	(D)	1,191,827	-	(D)
Alaska	(D) S	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1980, Series: M26A (80)-13 U.S. Department of Commerce, Washington, DC

* - 128 Cu. Ft. roughwood basis

- - Represents zero

S - Softwood pulpwood only H - Hardwood pulpwood only

(D) - Withheld by Commerce Department to avoid disclosure

TABLE XVII

REGIONAL CAPACITY OF THE PAPER INDUSTRY

PULP, PAPER AND BOARD: NUMBER OF MILLS AND CAPACITY

1980-1983

(000 short tons)

	PAPER AND PAPERBOARD					WOOD PULP				
	1980		1981F	1982F	1983F	1980		1981F	1982F	1983F
	Number of Mills	Annual Capacity	Annual Capacity	Annual Capacity	Annual Capacity	Number of Mills	Annual Capacity	Annual Capacity	Annual Capacity	Annual Capacity
NORTHEAST	221	12,172	12,194	12,446	12,595	39	4,720	4,804	4,944	4,951
New England	97	5,713	5,820	6,023	6,123	19	3,253	3,317	3,447	3,452
Maine	20*	3,441	3,620	3,841	3,932	15	2,797	2,846	2,971	2,976
New Hampshire	18	601	539	511	511	2	(D)	(D)	(D)	(D)
Vermont	8	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Massachusetts	38	942	909	912	916	0	0	0	0	0
Rhode Island	1	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Connecticut	12	448	471	479	484	0	0	0	0	0
Middle Atlantic	124	6,459	6,374	6,423	6,472	20	1,467	1,487	1,497	1,499
New York	57	2,399	2,359	2,385	2,400	9	606	614	619	621
New Jersey	27	1,472	1,418	1,401	1,403	3	87	84	84	84
Pennsylvania	40	2,588	2,597	2,637	2,669	8	774	789	794	794
NORTH CENTRAL	167	13,113	13,255	13,490	13,895	55	4,433	4,511	4,585	4,705
East North Central	148	11,256	11,387	11,580	11,912	43	3,535	3,592	3,643	3,732
Ohio	35	2,462	2,462	2,509	2,550	7	620	620	607	607
Indiana	14	725	690	662	678	1	(D)	(D)	(D)	(D)
Illinois	20	1,094	1,100	1,105	1,109	7	170	170	170	170
Michigan	33	2,619	2,669	2,722	2,873	6*	(D)	(D)	(D)	(D)
Wisconsin	46	4,356	4,466	4,582	4,702	22	1,807	1,864	1,895	1,934
West North Central	19	1,857	1,868	1,910	1,983	12	898	919	942	973
Minnesota	10	1,400	1,410	1,452	1,525	7	721	732	755	786
Iowa	3	(D)	(D)	(D)	(D)	2	(D)	(D)	(D)	(D)
Missouri	5	226	225	225	225	3	78	84	84	84
North Dakota	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0	0	0	0
Kansas	1	(D)	(D)	(D)	(D)	0	0	0	0	0
SOUTH	171	35,730	36,501	37,981	38,831	111	36,677	37,870	38,959	39,949
South Atlantic	80	16,946	17,277	17,772	18,010	49	17,367	17,803	18,158	18,450
Delaware	5	54	51	51	51	0	0	0	0	0
Maryland	5	(D)	(D)	(D)	(D)	2	(D)	(D)	(D)	(D)
Virginia	15	3,064	3,164	3,200	3,233	9	2,742	2,869	2,902	2,927
West Virginia	2	(D)	(D)	(D)	(D)	0	0	0	0	0
North Carolina	12*	2,179	2,128	2,195	2,238	6	2,349	2,409	2,444	2,528
South Carolina	8*	2,671	2,721	2,783	2,871	6*	2,619	2,654	2,654	2,676
Georgia	22	5,484	5,686	5,747	5,778	16*	5,708	5,901	6,033	6,124
Florida	11	2,788	2,811	3,063	3,083	10	3,631	3,652	3,796	3,849
East South Central	41	8,514	8,822	9,054	9,351	29	9,248	9,660	9,815	10,068
Kentucky	4*	295	298	373	395	3	504	502	559	579
Tennessee	13	2,070	2,088	2,108	2,132	5	1,503	1,561	1,566	1,569
Alabama	16	4,608	4,878	4,949	5,129	16	5,435	5,762	5,833	6,040
Mississippi	8*	1,541	1,558	1,624	1,695	5*	1,806	1,835	1,857	1,880
West South Central	50	10,270	10,402	11,155	11,470	33	10,062	10,407	10,986	11,431
Arkansas	11	2,319	2,321	2,338	2,339	7	2,270	2,317	2,320	2,320
Louisiana	15*	4,157	4,248	4,874	5,029	14*	4,313	4,496	4,962	5,282
Oklahoma	8	1,199	1,232	1,330	1,440	3	817	821	831	883
Texas	16	2,595	2,601	2,613	2,662	9	2,662	2,773	2,873	2,946
WEST	74	9,715	10,222	10,668	10,745	43	9,394	9,834	9,985	9,998
Mountain	8	1,263	1,478	1,592	1,582	3	1,148	1,295	1,330	1,309
Montana	1	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Idaho	2	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Wyoming	0	0	0	0	0	0	0	0	0	0
Colorado	2	(D)	(D)	(D)	(D)	0	0	0	0	0
New Mexico	1	(D)	(D)	(D)	(D)	0	0	0	0	0
Arizona	2	(D)	(D)	(D)	(D)	1	(D)	(D)	(D)	(D)
Utah	0	0	0	0	0	0	0	0	0	0
Nevada	0	0	0	0	0	0	0	0	0	0
Pacific, Hawaii and Alaska	68	8,452	8,744	9,076	9,163	40	8,246	8,539	8,655	8,689
Washington	16	3,133	3,290	3,452	3,461	16	3,984	4,125	4,210	4,221
Oregon	19	3,231	3,409	3,514	3,542	15	3,032	3,184	3,215	3,238
California	33	2,088	2,045	2,110	2,160	7	(D)	(D)	(D)	(D)
Hawaii	0	0	0	0	0	0	0	0	0	0
Alaska	0	0	0	0	0	2	(D)	(D)	(D)	(D)
TOTAL U.S.A.	635	70,730	72,172	74,585	76,066	248	55,224	57,019	58,473	59,603

(D) - Data withheld to avoid disclosure of individual company data. F - Forecast

SOURCE: Data received for 1980-1983 Capacity Survey, Paper, Paperboard, Wood Pulp - December 1981.

NOTE: Totals differ slightly from published data because of rounding.

* - Plus one new mill after 1980.

TABLE XVIII

REGIONAL DATA ON THE PAPER INDUSTRY

PAPER AND ALLIED PRODUCTS - 1978 DATA

	Number of All Employees (000)	Total Payroll ($000,000)	Number of Production Workers (000)	Wages of Production Workers	Value Added by Manufacture	Value of Shipments	Capital Expenditures
				---------------------	Million Dollars	-----------------	
NORTHEAST	185.1	2,702.5	141.7	1,839.2	6,369.8	14,343.0	804.5
New England	67.2	1,000.7	50.4	678.8	2,296.4	5,225.5	439.2
Maine	16.6	293.4	13.2	218.4	800.1	1,838.2	281.6
New Hampshire	6.9	101.5	5.1	64.0	206.7	551.7	26.9
Vermont	2.7	35.5	2.1	24.6	92.9	211.1	19.9
Massachusetts	31.2	422.0	22.8	277.7	853.4	1,889.5	77.0
Rhode Island	2.6	32.5	2.0	21.5	65.0	134.1	5.8
Connecticut	7.2	115.8	5.2	72.6	278.3	600.9	28.0
Middle Atlantic	117.9	1,701.8	91.3	1,160.4	4,073.4	9,117.5	365.3
New York	48.1	656.2	38.2	463.1	1,437.7	3,236.8	118.7
New Jersey	30.1	446.9	22.2	273.1	1,016.0	2,290.2	106.8
Pennsylvania	39.7	598.7	30.9	424.2	1,619.7	3,590.5	139.8
NORTH CENTRAL#	186.5	2,662.0	143.3	2,011.3	6,846.3	15,844.0	747.6
East North Central	152.1	2,354.6	116.2	1,648.2	5,484.7	12,894.2	612.3
Ohio	37.7	578.5	28.0	397.7	1,180.7	2,796.4	156.5
Indiana	14.1	189.9	10.7	127.7	436.2	991.6	25.9
Illinois	35.0	487.5	27.0	325.5	1,108.5	2,548.5	82.7
Michigan	23.4	388.3	17.7	274.5	844.3	2,132.8	83.8
Wisconsin	41.9	710.4	32.8	522.8	1,915.0	4,424.9	263.4
West North Central#	34.4	507.4	27.1	363.1	1,361.6	2,949.8	135.3
Minnesota	12.8	210.4	10.3	154.8	649.7	1,230.9	66.4
Iowa	5.2	71.2	4.0	50.9	174.4	444.2	13.3
Missouri	12.9	174.3	10.1	121.6	385.3	940.6	44.5
North Dakota	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-
Kansas	3.5	51.5	2.7	35.8	152.2	334.1	11.1
SOUTH#	194.3	3,075.2	150.8	2,224.6	8,065.1	19,161.2	1,710.0
South Atlantic#	99.3	1,545.0	76.4	1,102.1	3,875.8	9,453.1	787.6
Delaware	-	-	-	-	-	-	-
Maryland	10.3	135.7	7.0	77.4	338.4	702.0	47.1
Virginia	13.2	206.8	10.0	143.3	610.0	1,298.1	74.1
West Virginia	1.3	14.8	1.1	10.7	35.8	79.6	2.2
North Carolina	19.0	287.2	15.0	205.7	683.3	1,682.4	97.0
South Carolina	12.3	197.7	9.4	140.1	496.5	1,231.3	59.0
Georgia	27.0	437.9	21.1	323.8	1,098.1	2,850.1	428.0
Florida	16.2	264.9	12.8	201.1	613.7	1,609.6	80.2
East South Central	46.5	751.2	36.4	549.4	2,189.4	4,748.7	447.6
Kentucky	5.3	76.4	4.2	53.5	224.1	502.8	(D)
Tennessee	16.5	241.2	12.5	164.8	651.4	1,481.6	113.9
Alabama	18.0	324.2	14.3	247.2	996.0	2,067.5	303.9
Mississippi	6.7	109.4	5.4	83.9	317.9	696.8	29.8
West South Central	48.5	779.0	38.0	573.1	1,999.9	4,959.4	474.8
Arkansas	10.8	178.1	8.9	140.6	478.1	1,212.1	204.3
Louisiana	14.7	262.2	11.9	200.7	713.3	1,681.7	120.2
Oklahoma	2.0	31.0	1.6	22.5	104.6	295.9	(D)
Texas	21.0	307.7	15.6	209.3	703.9	1,769.7	150.3
WEST#	64.4	1,080.2	49.8	769.3	2,779.6	6,738.3	326.6
Mountain#	4.3	60.4	3.4	43.0	135.9	346.1	1.9
Montana	-	-	-	-	-	-	-
Idaho	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-
Colorado	1.9	27.8	1.5	18.3	56.8	138.4	(D)
New Mexico	Z	.4	Z	.3	.9	2.4	(D)
Arizona	1.2	20.7	1.0	15.8	52.6	135.9	(D)
Utah	1.2	11.5	.9	8.6	25.6	69.4	1.9
Nevada	-	-	-	-	-	-	-
Pacific#	60.1	1,019.8	46.4	726.3	2,643.7	6,392.2	324.7
Washington	14.7	273.6	11.2	188.8	695.2	1,683.7	95.5
Oregon	9.4	178.0	7.2	126.9	544.6	1,212.3	102.5
California	36.0	568.2	28.0	410.6	1,403.9	3,496.2	126.7
Hawaii	-	-	-	-	-	-	-
Alaska	-	-	-	-	-	-	-
TOTAL REPORTED	630.3	9,719.9	485.6	6,844.4	24,060.8	56,086.5	3,588.7
TOTAL U.S.A	638.6	9,852.3	491.8	6,939.6	24,396.0	57,000.0	3,736.3

SOURCE: 1978 Data. Annual Survey of Manufactures, U.S. Department of Commerce - Statistics for Divisions and States.
(D) - Data withheld to avoid disclosure of individual company data. # - Total Reported. Z - Does not meet publication standards.
- - Data not available separately. **NOTE**: Each state has at least one establishment in the Paper and Allied Products Industry.

SECTION III

INPUTS AND RELATED DATA

This section presents data on the inputs of labor and materials required to manufacture paper and paperboard. It also presents data on capital expenditures by the paper industry on two bases; expenditures on a company basis, that is for those companies whose major sales are paper and allied products and on an establishment basis, that is, capital expenditures at all establishments making paper and allied products, regardless of corporate ownership.

Table XIX presents data on fuel and energy used by wood pulp, paper and paperboard mills for 1972 and 1977-1981. These data were collected as part of the API's Energy Monitoring Systems. They represent revisions published in 1981, based on new information received by API. Chart 2, on page 47 shows the trends in the various types of fuels and energy used by mills during the 1972-1981 period. This chart highlights the sharp decline in the use of oil since 1979 and the steady increase in the use of bark and wood waste. There is presently a strong trend toward the introduction of bark and wood waste boilers as a replacement for oil burning facilities. The API's Energy Monitoring System also reported that use of fossil fuel per ton of paper, paperboard and dried pulp production, declined by 24.9% from 1972 to 1981, and that such fuel used per unit of activity at converting plants declined by 19.7% over that period.

Table XX presents data on waste paper collection and use in paper and paperboard manufacturing for the period 1970-81. Other uses include waste paper used at molded pulp mills, (which is reported to API as part of the Capacity Survey), in insulation and other uses. Import and export data are reported by the Bureau of Census. This table shows waste paper use ranging from a low of 22.8% in 1972 to a high of 24.1% in 1978. The 1981 utilization rate was close to the high-end of its range. Total waste paper recovered, however, expressed as a percent of the new supply of paper and paperboard has been in a general upward trend since 1970, and presently accounts for over 26% of the total. Growth in waste paper exports has played an important part in this rise.

Table XXI presents data on waste paper recovery by type of waste paper for the years 1977 through 1981. The data for 1977 through 1980 were collected by the API as part of its Capacity Survey report. The 1981 data are based on information collected by the Paper Recycling Division of the API for the year 1981. This Division collects data on molded pulp and insulation uses of waste paper, along with the data on use of waste paper at paper and board mills.

Tables XXIIA and XXIIB present data on U.S. production of total wood pulp and market wood pulp for the years 1970 through 1981. The wood pulp production data presented here are consistent with the capacity data shown in Table XIII, inasmuch as they exclude the production of defibrated and exploded pulp used in the manufacture of hard pressed board. The data on market pulp production, which account for about 12% of the total, may be considered as an output of the paper and board industry rather than an input, although about half the paper grade chemical pulp is sold in the domestic market, the other half is exported. The special alpha and dissolving grades are sold almost entirely outside the paper industry for such uses as rayon, acetate and cellophane.

Data on labor input and productivity are shown in Tables XXIV and XXV. Table XXIV includes a section, introduced last year, that breaks out from the total employment and earnings data at pulp and paper mills that portion which is in paper mills alone.

Table XXV presents data on output per man-hour and related data for the period 1947-1981. The 1947-1980 data are taken directly from the Bureau of Labor Statistics report. The 1981 data are estimated by the American Paper Institute.

Table XXVI presents data on employee costs in the paper and allied products industry, including supplements to wages and salaries, as presented in the Department of Commerce figures on National Income.

Table XXVII presents data on capital expenditures in the paper and allied products industry. The first column shows capital expenditures by paper and allied products companies - that is, those companies whose major products are in the paper and allied products industry. The data refer to total company capital expenditures and include capital expenditures in subsidiary companies not in the paper industry. These figures are published quarterly by the Bureau of Economic Analysis and represent the most current data available on capital expenditures.

The other data in this table represent total capital expenditures at the mills and plants of the industry, regardless of company ownership. They include all mills and plants producing pulp, paper and paperboard and converted products and are the most precise measures of capital expenditures for the paper and allied products industry. The data are published at the four-digit SIC level in the Census and Surveys of Manufactures. The latest data are for 1980. The Bureau of Census informed us that they used a new sampling system to collect the establishment data in 1979 and 1980. Prior to 1979, Census sampled the companies in the industry, and reported expenditures of all the establishments in the chosen companies. For 1979 and 1980, Census changed the sampling procedure to sample only individual mills. This seems to have led to larger deviations between the trend of expenditures shown by the company data reported by the Bureau of Economic Analysis and those reported by Census on the basis of the establishment data. In the 1975-1978 period, for example, expenditures reported by paper and allied products establishments averaged $3.2 billion per year compared to the $3.4 billion per year reported by companies whose main business was the manufacture of paper and allied products. In 1979 and 1980 the expenditures at establishments averaged about $4.8 billion per year, compared to $6.8 billion a year reported by companies in the paper and allied products classification. A major reason for the divergences appears to be the fact that the new system does not capture expenditures at greenfield mills while they are under construction. The company reports includes such data.

Table XXVIIIA presents the latest information on capital expenditures by the pulp and paper industry for environmental protection as reported by the National Council of the Paper Industry for Air and Stream Improvement. Table XXXVIIIB, a new table, shows data on expenditures by paper and allied products companies for research and development, as reported by the National Science Foundation.

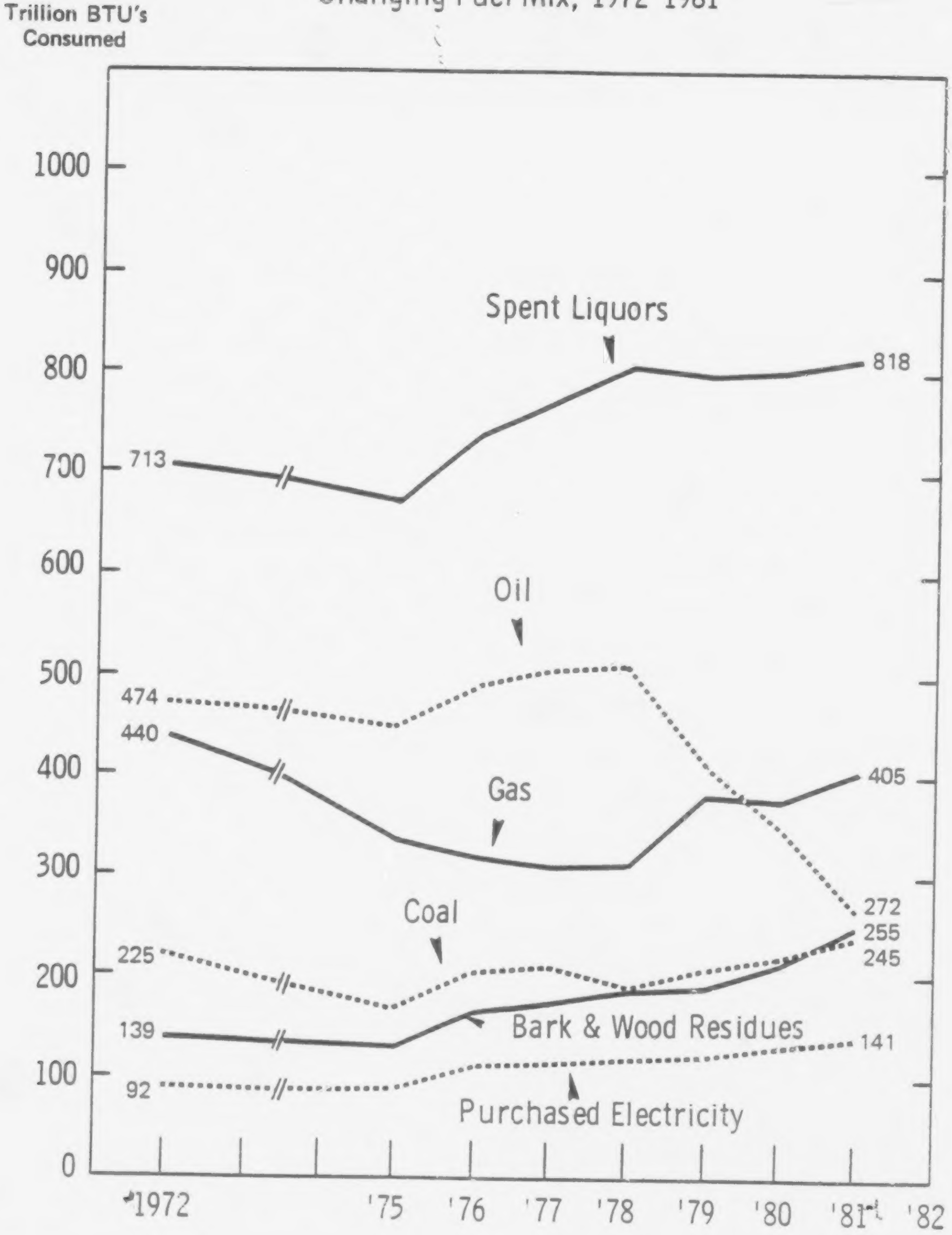
The primary raw material of paper and paper production is the tree. Table XXIX presents data taken from the latest edition of the Forest Service Division of the U.S. Department of Agriculture's Forest Statistics of the United States. The report presents the Service's detailed analysis of conditions in the commercial forests of the United States, together with analyses and forecasts of trends in the major markets for the forest products industry, including the pulp and paper industry. These reports by the Forest Service have been made periodically for over 100 years and have made contributions to public and private policies concerning forest management.

The table presented here describes ownership as of January 1, 1977. In that year, forest industry companies owned 13.9% of the commercial forest land of the U.S. The table [illegible]. shows that as of that date there was considerable potential for increased commercial removals of softwoods in every section of the U.S. except the Pacific Coast States and that all regions could expand their removal of hardwoods, before the rate removals plus mortality reached the rate of total growth.

Chart 2

PULP, PAPER & PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972-1981



June 1982

TABLE XIX

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1977 - 1981

SOURCE	UNITS	1972*R			1977*R			1978*R		
		Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+
Purchased Electricity	MMKWH	27,152.9	92,317.4	4.3	33,982.4	115,532.1	5.4	34,400.7	116,962.2	5.4
Purchased Steam	MM lbs	20,385.2	23,498.4	1.1	16,493.0	19,436.8	0.9	15,472.7	18,260.7	0.8
Coal	M tons	9,054.1	225,130.4	10.6	8,705.0	212,931.7	10.0	8,012.5	195,077.9	9.0
Residual Fuel Oil	M 42 gal.BBL	71,858.6	451,996.9	21.3	77,098.8	484,324.6	22.7	78,184.5	491,133.1	22.6
Distillate Fuel Oil	M 42 gal.BBL	3,717.9	22,174.0	1.1	2,802.4	16,616.3	0.8	2,435.8	14,413.6	0.7
Liquid Propane Gas	M gal.	29,171.3	2,683.7	0.1	16,110.8	1,472.7	0.1	11,942.1	1,114.1	Negl.
Natural Gas	MMCF	431,572.0	439,576.6	20.7	303,613.4	310,765.6	14.6	305,912.9	313,540.8	14.4
Other Purchased Energy			1,642.6	0.1		1,667.5	0.1		2,044.3	0.1
Energy Sold			(-13,164.6)			(-21,874.0)			(-27,419.6)	
Total Purchased Fossil Fuel and Energy			1,245,855.4	59.3		1,140,873.3	54.6		1,130,127.1	53.0
Hogged Fuel (50% Moisture Content)	M Tons	5,273.2	42,767.6	2.0	10,092.3	83,820.4	3.9	11,395.2	93,257.1	4.3
Bark (50% Moisture Content)	M Tons	10,562.0	96,634.9	4.6	10,361.2	91,542.9	4.3	10,903.8	96,339.3	4.4
Spent Liquor (Solids)	M Tons	56,407.4	713,264.7	33.6	62,900.8	776,473.9	36.5	65,645.3	814,431.0	37.5
Self-Generated Hydroelectric Power	MMKWH	2,683.8	9,127.4	0.4	2,750.3	9,350.7	0.4	2,644.6	8,991.2	0.4
Other Self-Generated Energy			3,024.4	0.1		6,531.5	0.3		8,617.8	0.4
Total Self-Generated & Waste Fuels			864,819.0	40.7		967,719.4	45.4		1,021,636.4	47.0
Total Energy			2,110,674.4	100.0		2,108,592.7	100.0		2,151,763.5	100.0

* Based on a sample of 91.6% of total dried pulp, paper and paperboard for 1981, 91.3% for 1980, 90.2% for 1979, 85.8% for 1978, 85.8% for 1977, and 88.7% for 1972.

+ Determined by using "Total Energy" + "Energy Sold" as a denominator.

Negl. Negligible

R Revised

SOURCE: Raw Materials and Energy Division
American Paper Institute

TABLE XIX (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1977 - 1981

		1979*R			1980*R			1981*		
SOURCE	UNITS	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+
Purchased Electricity	MMKWH	37,830.2	128,625.6	5.9	39,701.0	134,982.3	6.2	41,350.2	140,634.4	6.5
Purchased Steam	MM lbs.	14,260.6	16,496.0	0.8	12,882.1	14,909.4	0.7	13,138.8	15,242.4	0.7
Coal	M tons	8,832.7	217,723.7	9.9	9,210.2	226,898.9	10.4	10,016.7	244,697.4	11.2
Residual Fuel Oil	M 42 gal BBL	64,740.8	406,840.0	18.5	55,368.7	348,309.6	16.0	42,001.8	264,295.4	12.2
Distillate Fuel Oil	M 42 gal BBL	1,858.4	11,040.9	0.5	1,357.7	8,103.9	0.4	1,330.0	7,943.8	0.4
Liquid Propane Gas	M gal	17,210.9	1,586.1	0.1	21,193.0	1,955.7	0.1	22,201.8	2,045.3	0.1
Natural Gas	MMCF	377,107.1	387,124.6	17.6	375,215.8	384,450.1	17.7	395,988.9	404,782.3	18.6
Other Purchased Energy			5,621.5	0.3		5,421.7	0.2		2,854.1	0.1
Energy Sold			(-21,164.0)			(-21,740.4)			(-21,874.5)	
Total Purchased Fossil Fuel and Energy			1,153,894.4	53.6		1,103,291.2	51.7		1,060,620.6	49.8
Hogged Fuel (50% Moisture Content)	M tons	12,339.9	100,603.7	4.6	14,296.0	118,656.3	5.4	17,456.1	145,892.7	6.7
Bark (50% Moisture Content)	M tons	10,830.3	96,356.0	4.4	11,874.1	103,488.5	4.8	12,596.1	109,367.7	5.0
Spent Liquor (Solids)	M tons	65,037.5	803,625.7	36.6	65,615.0	811,305.6	37.3	66,422.3	817,783.4	37.6
Self-Generated Hydroelectric Power	MMKWH	2,736.8	9,304.8	0.4	2,449.9	8,328.9	0.4	2,783.9	9,466.6	0.5
Other Self-Generated Energy			8,608.4	0.4		8,389.0	0.4		8,397.7	0.4
Total Self-Generated & Waste Fuels			1,018,498.6	46.4		1,050,168.3	48.3		1,090,908.1	50.2
Total Energy			2,172,393.0	100.0		2,153,459.5	100.0		2,151,528.7	100.0

* Based on a sample of 91.6% of total dried pulp, paper and paperboard for 1981, 91.3% for 1980, 90.2% for 1979, 85.8% for 1978, 85.8% for 1977, and 88.7% for 1972.

+ Determined by using "Total Energy" + "Energy Sold" as a denominator.

R Revised

SOURCE: Raw Materials and Energy Division
American Paper Institute

TABLE XX

UNITED STATES

WASTE PAPER UTILIZATION AND RECOVERY

1970 - 1981

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Waste Paper Consumption at Paper & Board Mills	Waste Paper Utilization Rate	Waste Paper for Molded Pulp, Insulation and Other Uses	Exports	Imports	Total Waste Paper Recovered	Waste Paper Recovery Rate
1970	51,710	56,008	11,803	22.8%	418	408	(67)	12,562	22.4%
1971	53,203	57,492	12,106	22.8%	442	419	(68)	12,899	22.4%
1972	57,477	62,082	12,925	22.5%	447	415	(88)	13,699	22.1%
1973	59,936	65,039	14,094	23.5%	499	683	(87)	15,189	23.4%
1974	59,210	63,477	13,982	23.6%	489	1,307	(89)	15,689	24.7%
1975	51,126	54,261	11,748	23.0%	535	861	(72)	13,072	24.1%
1976	58,486	62,171	13,622	23.3%	630	1,273	(106)	15,419	24.8%
1977	60,207	64,408	14,058	23.3%	870	1,512	(92)	16,348	25.4%
1978R	62,221	67,961	14,760	23.7%	502	1,599	(70)	16,791	24.7%
1979R	64,546	69,997	15,361	23.8%	509	2,233	(78)	18,025	25.8%
1980R	63,768	67,334	14,922	23.4%	473	2,664	(87)	17,972	26.7%
1981P	64,375	68,073	15,409	23.9%	488	2,213	(79)	18,031	26.5%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, excluding hard pressed board.

New Supply equals production plus imports less exports, excluding hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of waste paper consumption to total production of paper and board.

Recovery Rate is the ratio of waste paper collected to new supply of paper and paperboard.

Total Waste Paper Recovered is the sum of Waste Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XXI

UNITED STATES

WASTE PAPER RECOVERY

1977-1981

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp, Insulation and Other Uses	Exports	Sub Total	Imports	Total
Used Corrugated						
1977	6,205	-	592	6,797	(30)	6,767
1978	6,721	-	577	7,298	(7)	7,291
1979	6,967	-	960	7,927	(11)	7,916
1980	6,866	-	1,209	8,075	(13)	8,062
1981	7,158P	-	991	8,149P	(12)	8,137P
Old Newspapers						
1977	2,057	870	316	3,243	(42)	3,201
1978	2,000	502	366	2,868	(6)	2,862
1979	2,321	509	336	3,166	(4)	3,162
1980	2,391	473	425	3,289	(10)	3,279
1981	2,388P	488P	425	3,301P	(9)	3,292P
Mixed Papers						
1977	2,773	-	341	3,114	-	3,114
1978	2,729	-	471	3,200	(52)	3,148
1979	2,648	-	648	3,296	(57)	3,239
1980	2,268	-	649	2,917	(55)	2,862
1981	2,322P	-	474	2,796P	(50)	2,746P
Pulp Substitutes						
1977	2,079	-	263	2,342	(20)	2,322
1978	2,242	-	92	2,334	(2)	2,332
1979	2,308	-	154	2,462	(4)	2,458
1980	2,254	-	205	2,459	(9)	2,450
1981	2,351P	-	192	2,543P	(8)	2,535P
High Grade Deinking						
1977	944	-	-	944	-	944
1978	1,068	-	93	1,161	(3)	1,158
1979	1,117	-	135	1,252	(2)	1,250
1980	1,142	-	176	1,318	(*)	1,318
1981	1,190P	-	130	1,320P	(*)	1,320P
Total All Grades						
1977	14,058	870	1,512	16,440	(92)	16,348
1978	14,760	502	1,599	16,861	(70)	16,791
1979	15,361	509	2,233	18,103	(78)	18,025
1980	14,922	472	2,664	18,058	(87)	17,971
1981	15,409P	488	2,213	18,110P	(79)	18,031P

* Less than 500 tons   R - Revised   P = Preliminary

TABLE XXIIA

UNITED STATES PRODUCTION OF WOOD PULP

1969 - 1981

(000 Short Tons)

PRODUCTION

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	API DATA	
													1980	1981
WOOD PULP, TOTAL+	41,887	42,421	42,595	45,237	46,659	46,724	41,445	45,695	47,222	48,027	49,277	50,443	51,726	52,874
Special Alpha and Dissolving Grades	1,676	1,705	1,674	1,656	1,637	1,723	1,583	1,443	1,436	1,405	1,447	1,417	1,508	1,365
Bleached Sulphite	1,893	1,931	1,809	1,827	1,810	1,804	1,594	1,599	2,012	1,643	1,814	1,910	1,459	1,403
Unbleached Sulphite	391	413	354	345	374	405	357	435					385	399
Bleached Sulphate	10,679	11,348	11,685	12,460	13,055	13,705	12,448	13,696	14,384	15,218	15,581	16,373	19,000	20,060
Semi-Bl. Sulphate	1,721	1,906	1,557	1,574	1,826	1,672	1,396	1,298	1,244	1,198	1,182	1,188		
Unbleached Sulphate	16,209	16,217	16,309	17,792	18,165	17,635	15,369	17,784	18,436	19,041	19,576	19,735	19,591	19,513
Soda	241	218	208	184	188	200	148E	95E	87E	86E	*	*	*	*
Groundwood, Stone and Refiner	4,416	4,404	4,462	4,639	4,670	4,711	4,351	4,649	4,268	4,010	3,809	3,899	3,602	3,735
Groundwood, Thermo-mechanical	**	**	**	**	**	**	**	**	583	645	811	989	1,165	1,584
Semichemical	3,620	3,297	3,473	3,786	3,864	3,758	3,201	3,576	3,542	3,549	3,889	3,938	4,026	3,924
Defibrated or Exploded ***	910	850	940	850	950	980	890	1,010	1,120	1,122	1,070	900	900	800
Screenings, Damaged, etc.	130	130	125	122	122	131	108E	110E	110E	110E	98E	95E	90E	90E

SOURCE: 1969 - 1980 - U.S. Bureau of the Census
1980 - 1981 - Pulp, Materials and Technology Group - API

* Soda pulp included with unbleached sulphate wood pulp

** Included with stone and refiner groundwood

*** Estimated to exclude wood pulp for hard pressed board

+ These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hard pressed board.

E - Estimated

TABLE XXIIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1969 - 1981

(000 Short Tons)

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
MARKET WOOD PULP, TOTAL	4,855	5,446	4,634	5,025	4,925	5,139	4,358	4,864	4,803	5,122	5,678	6,464	6,213
Special Alpha and Dissolving Grades	1,699	1,714	1,680	1,674	1,494	1,611	1,232	1,370	1,462	1,403	1,497	1,506	1,362
Paper Grade Chemical Total	3,137	3,694	2,944	3,303	3,409	3,492	3,079	3,428	3,263	3,638	4,117	4,889	4,850
Bleached Sulphite	513	529	405	468	465	392	314	292	219	231	248	348	263
Unbleached Sulphite	59	60	11	13	21	5	8	24	13	19	28	32	3
Bleached and Semi-Bleached Sulphate	2,256	2,741	2,325	2,705	2,813	2,905	2,670	2,999	2,895	3,291	3,729	4,377	4,439
Unbleached Sulphate	309	364	203	117	110	190	87	113	136	97	112	132	144
Paper Grades - Other	19	38	10	48	22	36	47	66	78	81	63	69	0

SOURCE: Pulp, Materials and Technology Group - API

TABLE XXIII

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS IN PAPER AND PAPERBOARD MILLS

1970 - 1981

(000 Short Tons)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979R	1980R	1981P
WOOD PULP, TOTAL*	41,953	42,787	45,928	47,267	46,736	40,863	45,894	46,824	48,223	50,058	50,477	51,535
Special Alpha and Dissolving Grades	70	71	77	73	58	42	36	44	42	42	41	40
Bleached Sulphite	2,195	2,135	2,161	2,009	2,136	1,768	1,985	1,884	1,587	1,726	1,639	1,570
Unbleached Sulphite	487	463	458	526	547	442	501	481	407	468	464	480
Bleached Sulphate	11,990	12,588	13,595	14,341	14,608	12,919	14,447	15,228	16,043	16,685	16,974)	19,720 1/
Semi-bleached Sulphate	1,817	1,711	1,797	1,812	1,626	1,453	1,517	1,378	1,795	1,769	1,846)	
Unbleached Sulphate	16,403	16,495	17,971	18,437	17,825	15,430	17,527	18,149	18,694	19,307	19,707)	19,700
Soda	257	235	213	221	231	166	121	121	118	127	120)	
Groundwood	4,532	4,590	4,807	4,935	5,004	4,546	5,085	4,497	4,281	4,396)	4,677	5,300
Thermomechanical	-	-	-	-	-	-	-	368	441	559)		
Semichemical	3,315	3,481	3,754	3,785	3,628	3,120	3,546	3,521	3,609	3,860	3,948	3,850
Defibrated or Exploded E	751	886	962	993	916	849	993	1,019	1,075	1,015	955	775
Screenings, Damaged, etc.	137	133	135	137	157	125	135	134	131	104	106	100
OTHER FIBROUS MATERIALS, TOTAL	12,631	12,981	13,817	14,977	14,820	12,373	14,364	14,884	15,584	16,088	15,122	15,988
Waste Paper	11,803	12,106	12,925	14,094	13,982	11,748	13,622	14,058	14,760	15,361	14,922	15,409
All Other, including Straw, Rags, etc.	828	875	892	883	838	625	742	826	854	727	602	579
PULPWOOD, TOTAL**	67,524	67,501	71,840	73,576	74,459	65,421	73,209	73,970	77,290	79,566	80,522	79,604
Softwood	51,335	50,932	53,751	54,868	54,634	48,932	55,789	55,509	57,096	58,654	58,860	57,829
Hardwood	16,189	16,568	18,089	18,708	19,825	16,489	18,420	18,461	20,194	20,912	21,662	21,775
Receipts of Residues	19,926	21,765	27,346	25,751R	29,949R	28,694	28,165	29,653	30,380	30,015	29,402	30,590
CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS												
TOTAL WOOD PULP	1,079	1,116	1,118	1,047	1,152	785	886	879	884	909	825	788
Special Alpha and Dis. Grades	898	933	929	869	937	600	705	702	576	701	629	609
Other Wood Pulps	181	183	189	178	216	185	181	177	208	208	196	179

SOURCE: Consumption in paper and board mills of wood pulp - 1970-1980 - Bureau of the Census, Industry Division
1981 - American Paper Institute
Consumption of waste paper - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division
Consumption of pulpwood - American Pulpwood Association

* Includes figures for Alaska; excludes wood pulp for hard pressed board.

** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.

P - Preliminary R - Revised E - Estimated by American Paper Institute

Note: Details may not add to totals due to rounding of figures to nearest thousand.
Waste paper consumption - Bureau of the Census data (000 tons)
1970 - 10,594; 1971 - 11,000; 1972 - 11,703; 1973 - 12,374; 1974 - 12,098; 1975 - 10,367;
1976 - 11,874; 1977 - 12,103; 1978 - 12,586; 1979 - 13,012; 1980 - 12,583; 1981 - 13,377

1/ Includes soda

TABLE XXIV

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1964 - 1981

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				-------(Thousands)--------	
PAPER AND ALLIED PRODUCTS - SIC 26					
1964	2.56	109.57	42.8	625.5	488.8
1965	2.65	114.22	43.1	639.1	497.7
1966	2.75	119.35	43.4	666.9	518.2
1967	2.87	122.84	42.8	679.1	526.3
1968	3.05	130.85	42.9	691.2	535.2
1969	3.24	139.32	43.0	711.1	550.6
1970	3.44	144.14	41.9	705.5	543.2
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.06	42.9	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.53	191.59	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	698.7	524.7
1979	7.13	303.74	42.6	706.8	535.6
1980R	7.84	330.85	42.2	692.8	522.7
1981	8.60	365.50	42.5	687.8	518.0
PAPER AND PULP* - SIC 261,262,266					
1964	2.77	121.88	44.0	213.1	169.9
1965	2.88	128.16	44.5	211.9	168.2
1966	3.02	135.30	44.8	215.1	169.9
1967	3.16	139.99	44.3	217.1	170.5
1968	3.35	149.08	44.5	217.7	170.2
1969	3.58	160.38	44.8	222.7	173.6
1970	3.80	166.06	43.7	218.8	168.6
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.03	44.4	206.5	160.6
1973	4.66	208.77	44.8	208.7	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.12	272.95	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9	154.7
1980R	9.15	407.18	44.5	203.3	152.2
1981	10.06	449.68	44.7	203.2	152.8
PAPER MILLS EXCEPT BUILDING PAPER - SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980R	9.09	408.14	44.9	175.0	129.7
1981	10.00	454.00	45.4	175.1	130.5

* Includes Building Paper and Board Mills R - Revised

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers.

TABLE XXIV (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1964 - 1981

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees Total (Thousands)	Employees Production Workers (Thousands)
PAPERBOARD - SIC 263					
1964	2.80	124.32	44.4	66.6	53.0
1965	2.93	132.14	45.1	68.1	54.1
1966	3.06	138.62	45.3	71.2	55.9
1967	3.19	142.59	44.7	72.1	56.4
1968	3.37	152.32	45.2	72.0	57.2
1969	3.61	163.53	45.3	71.1	56.4
1970	3.86	171.77	44.5	71.1	56.8
1971	4.14	184.23	44.5	66.0	51.4
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.5
1974	5.14	225.65	43.9	65.5	52.3
1975	5.74	243.95	42.6	60.8	47.9
1976	6.40	280.32	43.8	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5	51.9
1980R	9.28	408.32	44.0	65.1	51.0
1981	10.23	450.12	44.0	63.4	49.7
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1964	2.33	96.28	41.5	152.5	112.4
1965	2.39	99.42	41.6	159.6	116.8
1966	2.48	104.16	42.0	171.2	125.3
1967	2.60	107.38	41.3	175.5	128.8
1968	2.77	113.99	41.3	179.8	131.6
1969	2.94	121.30	41.4	187.6	136.4
1970	3.12	126.05	40.4	190.1	138.4
1971	3.36	136.42	40.6	190.2	139.2
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4	163.7
1980R	6.89	279.73	40.6	219.6	162.7
1981	7.58	310.02	40.9	219.7	161.7
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1964	2.40	100.56	41.9	193.3	153.5
1965	2.47	104.23	42.2	199.6	158.6
1966	2.56	109.06	42.6	209.3	167.1
1967	2.66	110.92	41.7	214.4	170.7
1968	2.82	117.88	41.9	221.7	177.2
1969	3.00	125.10	41.7	229.6	184.2
1970	3.18	128:79	40.5	225.0	179.2
1971	3.40	139.06	40.9	215.7	170.4
1972	3.64	151.06	41.5	219.9	173.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.16	168.06	40.4	219.3	172.2
1975	4.59	186.35	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980R	6.94	285.93	41.2	204.9	156.8
1981	7.53	312.50	41.5	201.5	153.8

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 & C-2, & Labstat Series Report, U.S. Dept. of Labor, Wash.,DC
NOTE: Data on hours and earnings refer to Production and Non-Supervisory Workers.

TABLE XXV

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1981

YEAR	Output per Man-Hour		Output	Man-Hours	
	Production Workers	All Employees		Production Workers	All Employees
	-1977 = 100-				
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.7	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.2R	102.4	98.7	99.2R
1979	106.2R	105.4R	106.0R	99.8R	100.6R
1980	108.1R	106.6R	105.5R	97.6R	99.0R
1981(API)	109.0	107.9	106.4	97.6	98.7

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics, (API): Estimated by American Paper Institute
N.A. - Not Available

TABLE XXVI

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY IN THE GROSS NATIONAL PRODUCT ACCOUNTS

1948 - 1981

	COMPENSATION OF EMPLOYEES						
YEAR	Total	Wages and Salaries	Supplements to Wages & Salaries*	Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	------------------(Millions of Dollars)------------------						
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	958	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,333	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,011	1,957	679	692	14,996
1978	13,498	11,219	2,258	2,081	690	700	16,259
1979	14,965	12,379	2,538	2,289	697	707	17,760
1980	16,208	13,378	2,856	2,472	681	691	19,645
1981	17,660	14,505	3,175	2,680	678	686	21,394

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6

* Total Less Wages and Salaries

TABLE XXVII

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS						
		Total SIC 26	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Converted Paper Products 264	Paperboard Containers & Boxes 265	Building Paper & Board Mills 266
1947	N.A.	407	-86a-			64	52	a
1948	383	-N.A.-						
1949	298	315	212a-			52	51	a
1950	327	299	212a-			51	36	a
1951	420	389	263a-			61	65	a
1952	364	371	274a-			61	36	a
1953	409	397	276a-			74	47	a
1954	455	533	148a-			182-		a
1955	510	556	389a-			167-		a
1956	800	750	548a-			106	96	a
1957	810	767	585a-			182-		a
1958	570	634	43	259	102	82	136	13
1959	650	686	92	215	117	79i	154	29b
1960	770	658	35	246	136	107i	109	25b
1961	620	685	49	285	108	99	113	31b
1962	620	742	34	277	126	122i	161	22b
1963	700	708	39	233	160	129	141	8
1964	910	902	67	296	214	153	160	12
1965	1,020	1,186	112	496	200	180	179	18
1966	1,320	1,422	113	575	255	212	249	18
1967	1,490	1,585	122	581	399	226	237	20
1968	1,220	1,238	77	487	185	231	242	17
1969	1,620	1,421	133	555	158	263	280	33
1970	1,740	1,397	122	503	239	289	227	18
1971	1,290	1,197	135	374	228	262	180	18
1972	1,460	1,355	136	372	314	289	206	19
1973	1,990	1,530	119	508	344	304	227	26
1974	2,890	2,214	136	723	637	315	342	63
1975	2,980	2,718	294	832	807	412	347	26
1976	3,110	3,010	375	1,044	844	394	335	12
1977	3,600	3,295	301	1,115	934	507	421	17
1978	3,990	3,736	195	1,424	1,000	604	496	19
1979	5,550	4,447*	240	1,714	1,229	725	491	48
1980	6,800	5,226*	259	1,897	1,586	799	645	40
1981	6,720	N.A.						

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis
Paper and Allied Products Establishments, Bureau of the Census

NOTES: (a) Capital expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published.
(i) Imputed from available data.
N.A. - Not Available
* - Based on revised sampling techniques which may have resulted in some understatement of the total.

TABLE XXVIIIA

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION CAPITAL EXPENDITURES THROUGH 1981 AND PLANNED THROUGH 1982

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
	Million Dollars				
Through 1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
1981	91	120	49	260	6
Through 1981	**2,765**	**2,295**	**251**	**5,311**	
Planned 1982	**141**	**161**	**35**	**337**	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement

TABLE XXVIIIB

PAPER AND ALLIED PRODUCTS EXPENDITURES ON RESEARCH AND DEVELOPMENT 1966 - 1981

YEAR	Total Expenditures --$ million--
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	336
1978	391
1979	454
1980	508
1981	584*
1982	654*

SOURCE: National Science Foundation

* McGraw Hill Economics Department Estimate

TABLE XXIX

WOOD SUPPLY AND DEMAND

	Total	New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
	-Million Acres-							
Commercial Forest Land in U.S. January 1, 1977	487.8	31.0	48.2	50.0	41.6	188.4	70.8	57.8
Ownership by Forest Industry Companies	68.0	9.9	2.9	4.2	0.8	35.8	12.3	2.1
% of Industry	13.9%	31.9%	6.0%	8.4%	1.9%	19.0%	17.4%	3.6%
	-Million Cubic Feet-							
All Species								
Total Growth	21,874	1,352	1,832	1,691	1,051	10,826	3,431	1,690
Removals	14,425	639	663	790	637	6,571	4,279	846
Mortality	4,036	367	330	520	145	1,087	1,088	498
Removals and Mortality as Percent of Growth	84.4%	74.4%	54.2%	77.5%	74.4%	70.7%	156.5%	79.5%
Softwoods								
Total Growth	12,350	847	232	456	70	6,270	2,886	1,589
Removals	10,170	396	103	181	25	4,471	4,152	842
Mortality	2,311	139	56	158	7	485	1,007	459
Removals and Mortality as Percent of Growth	101.1%	63.2%	68.4%	74.3%	45.7%	79.0%	178.8%	81.9%
Hardwoods								
Total Growth	9,524	505	1,600	1,236	982	4,556	545	100
Removals	4,255	244	560	609	612	2,100	126	4
Mortality	1,724	228	274	362	138	603	81	39
Removals and Mortality as Percent of Growth	62.8%	93.5%	52.1%	78.6%	76.4%	59.3%	38.0%	43.0%

New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	Delaware Maryland New Jersey New York Pennsylvania West Virginia	Michigan Minnesota North Dakota South Dakota (East) Wisconsin	Illinois Indiana Iowa Kansas Kentucky Missouri Nebraska Ohio	North Carolina South Carolina Virginia Florida Georgia Alabama Mississippi Tennessee Arkansas Louisiana Oklahoma Texas	Alaska Oregon Washington California Hawaii	Idaho Montana South Dakota (West) Wyoming Arizona Colorado Nevada Mexico Utah

SOURCE: Forest Statistics of the U.S., 1977 - Review Draft - U.S. Department of Agriculture, Forest Service

SECTION IV
FINANCIAL DATA ON THE PAPER INDUSTRY

The financial data in this section are presented in Table XXX. They are drawn from the Federal Trade Commission's Quarterly Financial Report for Manufacturing, Mining and Trade Corporations. Prior to 1971, the FTC prepared this report jointly with the Securities and Exchange Commission.

The data represent the financial characteristics of corporations whose primary sales are products classified in the paper and allied products industry. The figures refer to operations of the entire corporation. Many of the larger pulp and paper companies produce products not classified in this industry. In addition, a significant part of wood pulp, paper and paperboard capacity is owned by corporations whose major products are classified in other industry groups including chemicals, metal containers, glass containers, printing and publishing, as well as lumber. Thus, the data reported for the paper and allied products industry include sales and income from non-paper subsidiary operations and exclude the paper and allied products divisions of corporations whose major business is in another industry.

Industrial classifications of corporations can vary over time. The FTC continually reviews the status of the corporations and adjusts the classifications as required. In the past, it published adjusted data for the previous four quarters when such changes were significant. History shows that while the removal or addition of large companies may have major impacts on the reported sales volume, it generally has a small effect on the ratios of after-tax profits to sales or to stockholders' equity. In the early part of 1982, the Federal Trade Commission revised the 1981 quarterly data based on new information received from the Internal Revenue Service. These revisions were carried back to the fourth quarter of 1980. With the assistance of the Federal Trade Commission API estimated the annual 1980 income statement data for the paper and allied products companies consistent with the new data for 1981. The balance sheet data, that is data on such items as total assets, property, plant and equipment, etc., which refer to totals as of the end of the year, are as reported by the Federal Trade Commission.

Table XXX includes information on cash flow (depreciation plus profits after taxes) along with data on dividends, which permits calculation of internally generated funds available for investment. In addition, the FTC reports quarterly data on long-term debt (loans from banks due in more than one year plus other long-term debt) which, taken together with data on net worth, permit calculation of total capital employed.

Table XXXI presents price indexes of pulp, paper and allied products as published by the Bureau of Labor Statistics for the period 1969 through 1981. The BLS conducts monthly surveys of producers of the product groups listed in the table and calculates both average prices and price changes. The price data are indexed to the base periods shown in the table. Separate price indexes are combined into group indexes, with each weighted according to its importance to the total. The BLS made a major change in its pulp, paper and allied products category in 1980, when it included an index of printing and publishing activity in the overall index of pulp, paper and allied products. Publishing accounts for roughly half the group's importance. Table XXXI presents only the total printing and publishing index, without details. API has contacted the Bureau of Labor Statistics, objecting to the inclusion of printing and publishing prices in the pulp, paper and allied products price group. Table XXXI also presents the current product codes used by the BLS for the various indexes. In the API's Monthly Statistical Summary, which presents current data on the paper industry, the total pulp, paper and allied products price index is no longer published; in its place API publishes the index of pulp, paper and products excluding building paper and board, as being more representative of the trends in the industry.

Table XXXII presents data on operating characteristics at paper and allied products mills and plants for 1979 and 1980 as published in the Survey of Manufactures. The table shows data at the 4-digit SIC level. Data on the total primary sector may be computed by adding the data shown for industries 2611, 2621, 2631 and 2661. Note that the value added data include payrolls. The value of shipments is equal to the value added by manufacture plus cost of materials less the change in year-end inventories.

TABLE XXX

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1981

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreciation	Cash Inflow	Gross Cash Flow
1950	6,377	982	424	558	8.8	162	720	1,144
1951	8,022	1,417	858	559	6.9	183	742	1,600
1952	7,688	1,000	563	437	5.7	222	659	1,222
1953	8,371	1,005	554	450	5.4	242	692	1,246
1954	8,492	970	493	479	5.6	268	718	1,211
1955	9,847	1,206	601	604	6.1	310	914	1,515
1956	10,686	1,283	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	497	521	5.0	376	897	1,394
19581/	10,256	899	440	460	4.5	406	866	1,306
19582/	10,658	987	481	506	4.7	423	929	1,410
1959	11,824	1,204	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	546	587	5.0	480	1,067	1,613
1961	12,525	1.120	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	557	754	5.1	641	1,395	1,952
19651/	16,224	1,488	619	869	5.4	671	1,540	2,159
19652/	15,217	1,271	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	633	911	5.4	676	1,587	2,220
19672/	16,900	1,316	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	492	719	3.4	869	1,588	2,080
19711/	22,224	967	455	512	2.3	926	1,438	1,893
19712/	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-	
1972	23,324	1,584	543	941	4.0	959	1,900	2,543
19731/	26,503	2,481	1,040	1,441	5.4	1,012	2,453	3,493
19732/	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-	-N.A.-
19741/	30,799	3,692	1,511	2,183	7.1	1,032	3,215	4,724
19742/	32,837	3,792	1,502	2,287	7.0	1,063	3,350	4,855
1975	32,044	2,901	1,099	1,801	5.6	1,219	3,020	4,120
1976	39,270	3,643	1,374	2,270	5.8	1,382	3,652	5,025
19771/	41,926	3,442	1,207	2,234	5.3	1,548	3,782	4,989
19772/	45,750	3,632	1,266	2,367	5.2	1,663	4,030	5,296
19781/	49,683	4,097	1,447	2,648	5.3	1,767	4,415	5,864
19782/	48,982	4,036	1,436	2,598	5.3	1,726	4,324	5,762
1979	55,359	5,406	1,683	3,723	6.7	1,896	5,619	7,302
19801/	59,333	4,318	1,275	3,042	5.1	2,075	5,117	6,392
19802/	54,737	4,014	1,233	2,781	5.1	1,990	4,771	6,004
19803/	56,250E	4,045E	1,245E	2,800E	5.0E	2,026E	4,826E	6,071E
19811/	62,502	4,728	1,621	3,108	5.0	2,253	5,361	6,981
19812/	62,699	4,728	1,617	3,110	5.0	2,267	5,377	6,995

SOURCE: Yearly data calculated by API based on Federal Trade Commission-Securities & Exchange Commission, Quarterly Financial Report for Manufacturing Corporations, 1950 - 1981. As of Fourth Quarter 1971, report prepared by Federal Trade Trade Commission alone.

1/ Data as from Source consistent with earlier reports.
2/ Revised series - change in corporations included in industry.
3/ Series revised by FTC based on change in their adjustment factors.
N.A. Not Available
E - Estimates by API with assistance from FTC.

Cash Inflow = Net Profit after Taxes + Depreciation
Gross Cash Flow = Net Profit before Taxes + Depreciation
Total Capital = Net Worth + Long Term Debt

TABLE XXX (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1981

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes to Net Worth (%)
1950	178	380	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	8,407	7,502	4,509	5,809	1,309	7,118	8.9
19581/	265	195	8,829	7,941	4,652	6,089	1,472	7,561	7.6
19582/	286	220	9,170	8,200	4,818	6,341	1,500	7,841	8.0
1959	290	329	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	12,560	12,380	6,585	8,304	1,967	10,271	9.1
19651/	409	461	13,850	13,378	7,321	8,672	2,439	11,111	10.0
19652/	350	403	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	14,621	14,662	8,131	8,710	3,104	11,814	10.5
19672/	391	405	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	19,679	18,160	9,969	10,305	4,822	15,127	7.0
19711/	418	94	20,424	19,001	10,194	10,652	5,239	15,891	4.8
19712/	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	19,810	18,816	9,903	10,615	4,973	15,588	8.9
19731/	416	1,025	21,377	19,998	10,616	11,536	5,073	15,609	12.5
19732/	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
19741/	519	1,668	23,696	19,093	11,524	12,958	5,346	18,304	16.8
19742/	530	1,754	26,088	21,856	12,012	13,602	6,457	20,059	15.8
1975	632	1,158	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	32,010	27,284	15,659	17,203	7,625	24,828	13.2
19771/	725	1,502	34,450	29,545	17,131	18,321	8,551	26,872	12.2
19772/	793	1,566	37,047	31,866	18,590	19,704	9,254	28,958	12.0
19781/	877	1,771	40,810	34,420	20,226	21,181	10,082	31,263	12.5
19782/	859	1,739	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	45,304	37,069	22,349	23,206	11,028	34,234	16.0
19801/	1,089	1,957	50,040	41,403	25,739	25,889	11,850	37,739	11.8
19802/	1,050	1,731	44,866	39,534	24,391	23,873	10,365	34,238	11.6
19803/	1,057E	1,743E	45,894	40,361	24,800	24,396	10,585	34,981	11.5
19811/	1,161	1,947	50,706	44,942	27,747	26,452	11,633	38,085	11.7
19812/	1,126	1,984	50,912	45,122	27,881	26,558	11,705	38,263	11.7

See Page 62 for footnotes

TABLE XXXI

WHOLESALE AND PRODUCERS PRICE INDEXES
FOR SELECTED SUBGROUPS AND CLASSES OF
WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS
1968 - 1981

(Index 1967 = 100)

	1968	1969	1970	1971	1972	1973	1974	1975
PULP, PAPER & ALLIED PRODUCTS	101.1	104.0	108.2	110.1	113.4	122.1	151.7	170.4
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	101.2	104.1	108.5	110.4	113.7	122.5	152.8	171.9
Wood Pulp Sub-Group	100.0	100.0	109.6	112.1	111.5	128.3	217.8	283.4
Sulphate, Bleached	100.0	100.0	109.5	111.6	110.5	128.3	220.0	281.2
Sulphite, Bleached	100.0	100.0	109.9	113.2	113.2	129.5	227.0	298.7
Paper Making Wood Pulp	(Index Dec. 1973 = 100)			--	--	--	148.1	193.4
Bleached Sulphate Hardwood Pulp	(Index Dec. 1973 = 100)			--	--	--	147.2	186.4
Dissolving Wood Pulp	(Index Dec. 1973 = 100)			--	--	--	139.8	180.2
Waste Paper Sub-Group	130.0	138.7	125.0	112.1	133.6	197.4	265.5	110.2
No. 1 News	137.1	122.9	108.1	103.1	119.2	137.2	201.6	111.8
No. 1 Mixed	152.6	168.2	130.3	122.8	155.2	230.8	330.8	103.6
Old Corrugated Boxes	128.5	140.4	135.5	111.5	131.6	223.3	251.4	89.7
Semichemical Kraft Clippings	125.6	149.1	145.7	127.2	153.8	223.7	288.8	134.4
Mixed Kraft Clippings	131.5	157.6	153.6	130.9	163.2	247.1	323.2	138.3
White News Blanks	91.9	89.9	84.3	82.5	85.8	124.4	212.0	111.7
Paper Sub-Group	102.0	105.5	111.0	114.2	116.3	121.4	148.6	172.9
Paper, except Newsprint	102.2	105.8	112.0	114.8	116.1	121.0	147.7	169.3
Book Paper, Uncoated Offset	102.4	106.2	112.0	116.3	118.5	120.9	153.7	158.0
Wood Bond, Unwatermarked	105.7	[illegible].8	115.6	120.1	121.9	124.8	139.5	148.5
25% Cotton Fiber	103.5	106.6	112.1	115.4	116.7	122.2	147.8	162.8
Wrapping Paper	98.0	104.5	117.6	117.9	119.8	127.4	158.6	200.8
Newsprint Class	101.1	104.4	107.6	112.2	116.7	122.2	151.2	184.0
Coated Printing Paper #3	(Index Dec. 1973 = 100)			--	--	--	110.1	118.4
Coated Printing Paper #5	(Index Dec. 1973 = 100)			--	--	--	119.6	136.3
Watermarked Bond #1	(Index Dec. 1973 = 100)			--	--	--	108.3	114.6
Form Bond, 12 lbs.	(Index Dec. 1973 = 100)			--	--	--	128.7	144.7
Uncoated Index Bristols	(Index Dec. 1973 = 100)			--	--	--	119.2	133.5
Shipping Sack, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	117.6	143.0
Standard Converting, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	116.1	140.7
Grocery Sack, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	118.3	150.7
Form Bond, 15 lb.	(Index Dec. 1975 = 100)			--	--	--	--	--
Paperboard Sub-Group	95.9	99.4	101.1	102.4	105.5	115.1	152.2	170.3
Containerboard Class	93.1	97.2	99.0	100.3	103.9	113.4	146.2	171.5
Linerboard, 42 lb. Kraft	94.4	97.5	99.2	100.3	103.4	111.4	143.8	171.0
Corrugating Medium, Semichemical	89.6	96.3	98.9	100.2	105.1	118.3	152.2	172.5
Folding Boxboard Class	100.2	102.5	103.2	104.6	106.5	115.7	158.2	162.8
Set-Up Boxboard Class	102.2	107.0	110.7	113.7	119.0	131.4	185.4	192.9
Chipboard	103.4	109.6	114.1	117.5	123.3	135.0	187.3	191.7
White Clay Coated, 80 Bright	(Index Dec. 1974 = 100)			--	--	--	--	100.0
Bleached Board Folding Carton	(Index Dec. 1974 = 100)			--	--	--	--	102.0
Uncoated Cup Stock	(Index Dec. 1974 = 100)			--	--	--	--	102.8
Tube, Can and Drum Stock	(Index Dec. 1974 = 100)			--	--	--	--	100.2
Converted Products Sub-Group	101.0	103.6	107.9	109.7	113.6	121.6	144.9	161.8
Sanitary Paper, etc.	104.2	109.1	115.1	119.6	121.0	124.8	155.7	194.7
Paper Bags, Shipping Sacks	94.4	98.4	106.9	100.1	107.6	119.4	138.6	155.7
Boxes, Shipping Containers	101.6	104.4	108.1	111.5	115.9	124.5	146.0	158.0
Gummed Sealing Tape	100.8	102.0	102.1	100.4	102.9	111.8	138.8	161.6
Office Supplies	100.3	98.7	101.4	101.9	103.2	109.9	136.1	148.5
Composite Cans	102.7	104.6	108.3	112.3	115.9	122.3	143.6	167.3
Building Paper and Board Sub-Group	100.9	105.5	101.0	102.8	106.4	112.8	123.5	127.1
All Commodities	102.5	106.5	110.4	114.0	119.1	134.7	160.1	174.9
Industrial Commodities	102.5	106.0	110.0	114.1	117.9	125.9	153.8	171.5

SOURCES: Bureau of Labor Statistics, Microfiche report containing complete series of producers price indexes through June 1981, U.S. Department of Labor, Washington, D.C.

NOTE: Annual figures are averages of monthly data.

TABLE XXXI (Cont.)

WHOLESALE AND PRODUCERS PRICE INDEXES
FOR SELECTED SUBGROUPS AND CLASSES OF
WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS
1968 - 1981
(Index 1967 = 100)

	1981 BLS Price Codes	1976	1977	1978	1979	1980	1981
PULP, PAPER & ALLIED PRODUCTS	09	179.4	186.4	195.6	219.0	249.2	273.8
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	091	180.8	187.3	195.6	220.2	250.6	270.8
Wood Pulp Sub-Group	0911	286.0	281.1	266.5	314.3	380.3	397.1
Sulphate, Bleached Softwood	09110211	282.8	277.0	257.1	308.4	378.6	395.7
Sulphite, Bleached	09110221	291.0	278.1	268.6	336.3	420.6	431.4
Paper Making Wood Pulp	091102	192.5	186.8	174.5	263.5	263.5	272.6
Bleached Sulphate Hardwood Pulp	09110212	181.1	174.0	162.9	197.5	240.2	241.9E
Dissolving Wood Pulp	091103	189.9	193.8	191.5	197.9	229.9	247.8
Waste Paper Sub-Group	0912	184.9	187.2	191.2	206.6	208.7	175.7
No. 1 News	09120102	199.5	209.6	200.5	151.8	167.4	95.7
No. 1 Mixed	09120205	156.3	174.4	224.0	204.3	221.7	189.8
Old Corrugated Boxes	09120311	195.7	186.4	202.0	278.4	192.0	136.9
Semichemical Kraft Clippings	09120415	209.6	210.4	224.2	335.4	325.7	277.7
Mixed Kraft Clippings	09120521	231.0	232.2	248.7	384.4	371.4	313.5
White News Blanks	09120625	185.9	186.7	178.5	186.3	217.2	206.8
Paper Sub-Group	0913	182.3	194.3	206.1	229.6	256.8	279.8
Paper, except Newsprint	091301	177.1	187.2	199.4	222.8	249.3	271.1*
Book Paper, Uncoated Offset	09130122	164.7	173.8	188.3	214.1	238.9	266.3
Wood Bond, Unwatermarked	09130131	151.1	156.6	164.7	182.1	203.5	220.2
25% Cotton Fiber	09130141	170.2	180.1	187.3	203.7	230.0	248.1
Wrapping Paper	09130302	208.4	213.3	225.6	243.6	261.3	N.A.
Newsprint Class	09130291	198.2	215.5	226.3	250.2	279.3	308.0
Coated Printing Paper #3	09130113	128.5	139.1	153.9	167.2	178.6	193.0
Coated Printing Paper #5	09130115	144.9	162.3	179.5	194.5	217.7	235.3
Watermarked Bond #1	09130132	116.2	119.9	125.3	137.4	150.4	N.A.
Form Bond, 12 lbs.	09130133	149.0	154.2	165.3	187.8	209.7	226.3
Uncoated Index Bristol	09130147	137.8	144.1	149.7	166.6	191.3	N.A.
Shipping Sack, Unbl. Kraft	09130304	145.3	155.4	161.5	178.3	199.6	220.4
Standard Converting, Unbl. Kraft	09130311,2	141.5	145.4	151.5	167.0	191.3	N.A.
Grocery Sack, Unbl. Kraft	09130307	152.0	151.2	158.2	179.6	210.6	223.9
Form Bond, 15 lb.	09130134	102.4	103.9	110.9	126.1	142.3	154.7
Paperboard Sub-Group	0914	176.0	176.2	179.6	202.1	234.6	258.1
Containerboard Class	091401	176.1	172.0	172.7	197.8	231.1	252.5
Linerboard, 42 lb. Kraft	09140101	174.4	170.6	171.5	196.4	231.0	251.8
Corrugating Med., Semichem.	09140111	181.5	177.3	179.1	203.8	233.2	254.9
Folding Boxboard Class	091402	167.4	174.8	185.2	199.4	229.2	249.5
Set-Up Boxboard Class	091403	195.1	204.1	214.9	234.5	274.6	294.0
Chipboard	09140332	193.9	202.8	213.5	233.1	272.9	292.2
White Clay Ctd., 80 Bright	09140225	103.7	108.8	117.6	124.8	141.6	154.4
Bleached Board Fldg. Carton	09140441	109.9	117.4	124.0	134.4	152.6	176.1
Uncoated Cup Stock	09140442	111.1	118.7	122.8	135.5	156.4	178.8
Tube, Can and Drum Stock	09140448	103.0	104.1	105.6	117.0	133.4	143.4
Converted Products Sub-Group	0915	170.0	176.6	186.5	209.9	238.5	258.8
Sanitary Paper, etc.	091501	214.4	236.7	253.8	279.9	325.0	347.3
Paper Bags, Shipping Sacks	091502	163.5	171.5	190.9	220.4	246.4	N.A.
Boxes, Shipping Containers	091503	164.7	167.6	174.6	197.6	223.2	243.9
Gummed Sealing Tape	09150431	168.3	175.8	187.6	205.5	246.7	260.9
Office Supplies	091506	149.4	151.4	156.7	178.6	198.7	214.6
Composite Cans	091507	179.0	194.3	209.6	226.4	253.3	272.8
Building Paper and Board Sub-Group	092	138.8	157.0	187.4	182.4	206.2	231.7
Publications, Printed Matter and Printing	093				(Index Dec. 1980 = 100)		108.2
All Commodities		183.0	194.2	209.3	235.6	266.8	293.4
Industrial Commodities		182.4	195.1	209.4	236.5	274.8	304.1

* Also excludes packaging paper E - Estimate N.A. - Not Available

TABLE XXXII

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1980

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture ($ Mil.)	Cost of Materials ($ Mil.)	Value of Industry Shipments ($ Mil.)	Capital Expendi- tures New ($ Mil.)	End-of-Year Inventories ($ Mil.)
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)					
26	PAPER AND ALLIED PRODUCTS	645.1	11,705.6	492.8	1,004.0	8,187.5	29,687.5	43,366.7	72,650.0	5,226.3	7,660.0
2611	**Pulp Mills**	16.2	404.6	12.8	26.5	304.4	1,292.7	1,776.9	3,031.9	258.8	357.1
2621	**Paper Mills, exc. Bldg. Paper**	130.1	2,936.4	101.0	212.2	2,195.2	7,707.6	10,738.6	18,326.1	1,896.6	1,808.1
2631	**Paperboard Mills**	64.0	1,514.3	49.9	107.1	1,143.9	3,824.9	6,090.7	9,872.3	1,586.3	697.6
264	**Misc.Converted Paper Products**	227.5	3,529.2	171.4	339.4	2,349.2	10,174.5	13,734.8	23,699.8	799.1	2,826.3
2641	Paper Coating and Glazing	45.8	753.1	29.8	60.8	437.5	1,902.9	2,805.0	4,688.1	174.5	639.8
2642	Envelopes	25.6	362.0	20.4	39.6	246.9	741.1	734.1	1,460.4	55.2	177.9
2643	Bags, except Textile Bags	54.9	809.0	43.7	87.0	559.7	2,007.5	3,247.3	5,214.6	163.6	640.6
2645	Die-Cut Paper and Board	16.6	229.3	12.7	24.0	147.3	610.2	857.0	1,453.5	41.0	158.5
2646	Pressed and Molded Pulp Goods	4.4	74.4	3.6	7.6	58.9	110.9	110.5	224.7	10.2	25.3
2647	Sanitary Paper Products	37.7	740.0	29.5	59.5	549.4	3,552.4	4,176.2	7,636.2	278.0	668.1
2648	Stationery Products	13.0	172.6	9.9	19.1	112.1	219.6	625.5	835.6	12.7	140.4
2649	Converted Paper Products, NEC	29.5	388.9	21.8	41.8	237.3	1,029.8	1,179.3	2,186.7	63.8	375.6
265	**Paperboard Containers and Boxes**	200.6	3,211.9	152.1	307.5	2,108.0	6,464.3	10,716.3	17,191.9	645.0	1,915.9
2651	Folding Paperboard Boxes	45.5	713.9	36.3	73.2	505.5	1,395.9	1,918.2	3,276.5	92.2	537.5
2652	Set-Up Paperboard Boxes	13.5	148.0	11.6	29.8	101.4	266.6	198.7	465.1	16.2	62.8
2653	Corrugated, Solid Fiber Boxes	97.2	1,667.0	69.4	136.2	1,034.2	3,325.9	6,273.2	9,650.5	432.[illegible]	782.8
2554	Sanitary Food Containers	28.4	427.6	21.7	42.5	285.1	921.8	1,509.5	2,430.2	58.3	379.6
2655	Fiber Cans,Drums,Similar Prod.	15.9	255.6	13.1	25.9	181.8	554.0	816.8	1,369.6	45.6	153.2
2661	**Building Paper and Board Mills**	6.7	109.2	5.5	11.3	86.9	223.5	309.3	528.0	40.4	55.0

1979

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture ($ Mil.)	Cost of Materials ($ Mil.)	Value of Industry Shipments ($ Mil.)	Capital Expendi- tures New ($ Mil.)	End-of-Year Inventories ($ Mil.)
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)					
26	PAPER AND ALLIED PRODUCTS	657.8	10,810.0	509.1	1,030.3	7,635.6	27,136.3	37,807.9	65.199.4	4,447.0	6,826.4
2611	**Pulp Mills**	15.7	338.9	12.2	25.1	252.4	1,117.2	1,417.2	2,544.1	239.7	264.4
2621	**Paper Mills, exc. Bldg. Paper**	131.6	2,696.6	103.1	216.1	2,027.8	7,398.7	9,073.4	16,391.1	1,714.1	1,495.5
2631	**Paperboard Mills**	64.2	1,353.8	49.9	106.4	1,015.9	3,465.5	5,040.7	8,505.8	1,229.0	544.2
264	**Misc.Converted Paper Products**	230.1	3,225.3	177.8	343.[illegible]	2,185.5	9,128.5	12,204.2	21,244.1	725.2	2,584.7
2641	Paper Coating and Glazing	49.8	680.9	36.1	63.5	414.1	1,726.7	2,473.3	4,229.6	151.2	602.1
2642	Envelopes	24.9	329.8	19.8	38.8	225.7	665.7	648.6	1,303.6	38.7	155.8
2643	Bags, except Textile Bags	52.7	730.2	42.1	83.4	509.8	1,772.5	2,832.9	4,578.8	129.7	560.0
2645	Die-Cut Paper and Board	17.0	217.2	13.1	25.2	144.0	649.7	836.4	1,468.2	32.7	155.3
2646	Pressed and Molded Pulp Goods	4.6	70.9	3.8	7.9	55.3	119.8	92.9	220.2	6.6	24.7
2647	Sanitary Paper Products	37.7	660.1	30.2	61.2	492.7	3,047.9	3,608.0	6,615.2	265.4	569.8
2648	Stationery Products	13.4	161.4	10.2	19.4	106.2	192.8	587.5	765.8	14.6	137.4
2649	Converted Paper Products, NEC	30.1	374.8	22.6	43.8	237.7	953.4	1,124.5	2,042.7	36.3	379.6
265	**Paperboard Containers and Boxes**	209.1	3,082.2	160.2	326.9	2,062.9	5,784.3	9,758.9	15,984.5	421.3	1,883.7
2651	Folding Paperboard Boxes	45.0	658.0	36.1	73.6	471.3	1,316.1	1,665.5	2,950.0	76.8	511.5
2652	Set-Up Paperboard Boxes	13.4	132.9	11.3	29.5	91.8	270.1	1[illegible].6	434.4	14.6	63.0
2653	Corrugated, Solid Fiber Boxes	103.7	1,639.8	75.5	150.1	1,037.8	2,720.1	5,766.5	8,975.9	303.0	766.[illegible]
2654	Sanitary Food Containers	29.8	401.4	23.0	44.9	274.0	962.1	1,373.4	2,327.6	65.7	392.4
2655	Fiber Cans,Drums,Similar Prod.	17.1	250.2	14.3	28.7	187.9	515.8	781.9	1,296.6	31.2	150.6
2661	**Building Paper and Board Mills**	7.1	113.1	5.9	12.6	91.1	242.2	313.7	549.8	47.7	54.0

SOURCE: 1980 Annual Survey of Manufactures, U.S. Department of Commerce, General Statistics for Industry Groups and Industries, Series MC80 (AS) - 1

SECTION V

SUPPLEMENT

Tables XXXIII and XXXIV present Census data on production, imports, exports and new supply of wet machine board and total construction paper and board, for the years 1947 through 1981.

These data are included in the production and new supply totals shown in Tables I and X. API does not collect data on these grades.

Table XXXV presents the data on imports used in computing the new supply totals for these grades presented in Table X that were taken from sources other than Bureau of the Census or compiled differently from the grade totals shown in Table XIV.

Table XXXVI presents similar data on exports.

This section also includes the index to this report.

TABLE XXXIII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1981

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,589	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,167	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750
1981P	151,000R	1,684	10,812	141,872

P - Preliminary, based on monthly reports.

SOURCE: Department of Commerce, Bureau of the Census, Industry Division. Current Industrial Reports: Pulp, Paper and Board, Annual Issues

R - Includes unpublished revisions for January-May 1981 data.

TABLE XXXIV

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1981

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,006	3,236,910
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,642	3,458,842
1980	2,420,112	473,679	57,662	2,836,129
1981P	1,963,000R	396,496	68,832	2,290,664

P - Preliminary, based on monthly reports.

SOURCE: Department of Commerce, Bureau of the Census, Industry Division. Current Industrial Reports: Pulp, Paper and Board, Annual Issues

R - Includes unpublished revisions for January-May 1981 data.

NOTE: Excludes Hard Pressed Board

TABLE XXXV

IMPORTS

1959 - 1981
(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Paper	Coated Papers	Uncoated Free Sheet Papers
1959	5,274	41.5	0	0.2
1960	5,426	39.5	0	1.8
1961	5,382	35.9	0	3.4
1962	5,415	41.5	0	3.8
1963	5,398	44.2	0	5.3
1964	5,908	70.6	0	11.2
1965	6,349	98.1	0.9	10.7
1966	6,884	132.9	0.9	14.2
1967	6,546	147.5	1.4	34.7
1968	6,391	136.8	1.3	13.4
1969	6,724	216.9	3.3	15.4
1970	6,477	232.9	3.5	48.9
1971	6,463	244.2	4.7	108.5
1972	6,758	225.1	4.5	93.3
1973	7,236	237.1	12.3	120.2
1974	7,452	321.3	16.3	138.9
1975	5,552	264.0	4.7	86.9
1976	6,308	338.1	15.5	133.9
1977	6,339	443.2	111.6	155.3
1978	7,102	610.7	213.7	112.7
1979	7,168	694.5	188.7	140.6
1980	6,880	688.1	114.8	116.0
1981	6,728	650.0	39.0	118.8

SOURCE: Newsprint - Canadian Pulp and Paper Association
Uncoated Groundwood - Imports from Canada, CPPA
Imports from other countries, Bureau of the Census, adjusted by Printing/Writing Division of API
Uncoated Free Sheet Papers - Bureau of the Census, adjusted by Printing/Writing Division of API
Coated Papers - Bureau of the Census

TABLE XXXVI

EXPORTS

1959 - 1981
(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers	Unbleached Kraft Paperboard	Semichemical Paperboard	Bleached Paperboard	Recycled Paperboard
1959	4.6	25.6	44.8	329.0	21.0	17.0	40.0
1960	8.6	26.1	38.2	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9	1,380.7	94.0	108.5	12.8
1969	6.1	70.0	35.3	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	64.9	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8	1,058.0	115.4	256.2	23.9
1976	70.6	106.7	147.3	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4	1,289.6	121.9	389.4	29.6
1978	58.1	73.7	84.9	1,466.3	119.2	432.9	21.6
1979	80.4	73.5	68.1	1,645.3	98.2	496.7	21.8
1980	101.0	92.8	88.3	2,379.8	322.3	549.4	82.6
1981	119.7	88.6	116.7	1,886.6	155.2	556.6	23.8

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation
Paperboard Grades - 1959-1967 - Bureau of the Census
1968-1981 - American Paper Institute (See Table VII)

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